ORDER NO.MAD0508007CE

Service Manual

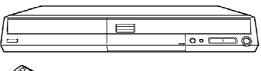
DVD Recorder

DMR-EH60DEB

Vol.1

Colour

(S).....Silver Type





Note:

This model's DVD-RAM Drive is VXY1872.

When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.

After that, **programme in the HDD will be lost.** In detail, please refer to each content in this service manual.

SPECIFICATIONS

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

This service manual contains technical which will allow service personnel~s to understand and service this model.

1

Please place orders using the parts list and not the drawing reference numbers. If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

- 1. This service manual does not contain the following information, because of the impossibility of sevicing at component level.
 - Schematic Diagram, Block Diagram and P.C.B. layout of Digital P.C.B. and Backend P.C.B.
 - Parts List for individual parts of Digital P.C.B. and Backend P.C.B.
 - Exploded View and Parts List for individual parts of RAM drive.
- 2. The following category are recycle module part. Please send them to Central Repair Center.

- Digital P.C.B.: RFKBEH60DEB

- Backend P.C.B.: REPD0023A

- RAM drive: VXY1872

2. SAFETY PRECAUTIONS

2.1. GENERAL GUIDELINES

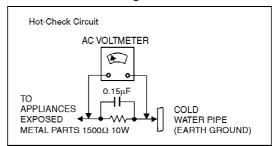
- 1. Be careful during removing metal parts, sharp edges.
- 2. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 4. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the

equipment such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M $_{\Omega}$ and 5.2M $_{\Omega}$. / When the exposed metal does not have a return path to the chassis, the reading must be infinity.

Figure 1



2.1.2. LEAKAGE CURRENT HOT CHECK

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATIC SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such

components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

- Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing

together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

■ IMPORTANT SAFETY NOTICE ■

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. PRECAUTION OF LASER DIODE

CAUTION:

This product utilizes a laser diode with the unit turned "on",

invisible laser radiation is emitted from the pickup lens.

Wave length: 662 nm (DVDs)/795 nm (CDs)

Maximum output radiation power from pickup: 100 Maximale Strahlungsleistung der Lasereinheit μ W/VDE.

Laser radiation from the pickup lens is safety level, but be sure

the followings:

- 1. Do not disassemble the optical pickup unit, since radiation
 - from exposed laser diode is dangerous.
- 2. Do not adjust the variable resistor on the pickup unit.
 - It was already adjusted.
- 3. Do not look at the focus lens using optical instruments.
- 4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.

Im eingeschalteten Zustand wird unsichtbare

Laserstrahlung von der

Lasereinheit ausgestrahlt.

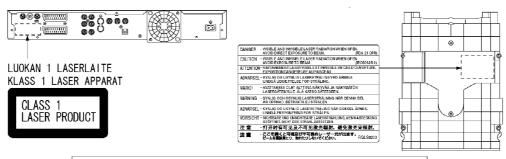
Wellenlänge: 662 nm(DVDs)/795 nm (CDs)

/VDE.

Die Strahlung der eingeschalteten Lasereinhe ungefährlich, wenn

folgende Punkte beachtet werden:

- 1. Die Lasereinheit nicht zerlegen, da die Stra der freigelegten
 - Laserdiode gefährlich ist.
- 2. Den werksseitig justierten Einstellregler de Lasereinheit nicht verstellen.
- 3. Nicht in die Fokussierlinse blicken.
- 4. Auch nicht mit optischen Instrumenten in c Fokussierlinse blicken.



CAUTION! THIS PRODUCT UTILIZES A LASER USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

5. HANDLING THE LEAD-FREE SOLDER

5.1. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder;
 Typically the melting point is 50 70°F (30 40°C) higher.
 Please use a high temperature soldering iron. In case of the soldering iron with temperature control,
 please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. GENERAL DESCRIPTION

7. NEW FEATURES

7.1. QUICK START FUNCTION (REC)

1. General

A few seconds after tuning on the unit, you can start recording to DVD-RAM, HDD.

You can switch the operation of this function (ON/OFF) on the menu screen.

2. Quick start (REC) principle

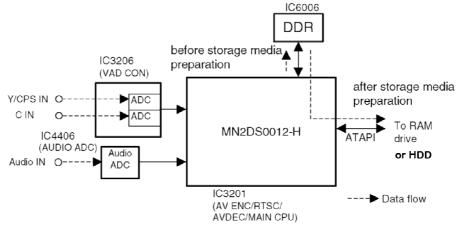
In the power-off at Quick start, only power supplies for video IC, tuner and storage media are cut off.

2.1. When the REC button is pushed a few second after the power button is pushed, Audio and Video data are stored

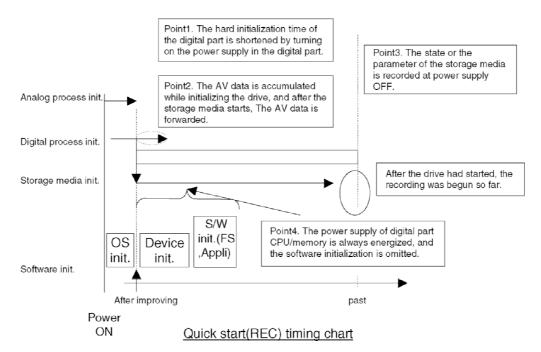
in DDR SDRAM before a storage media (DVD-RAM or HDD) preparation.

*Preparation time → DVD-RAM: About 8 seconds, HDD: About 18 seconds.

2.2. After a storage media DVD-RAM or HDD preparation, / Audio and Video data are transferred from DDR SDRAM to the storage media.



Quick start(REC) explanation chart



8. TAKING OUT THE DISC FROM RAM-DRIVE UNIT WHEN THE DISC CANNOT BE EJECTED BY OPEN/CLOSE BUTTON

8.1. FORCIBLE DISC EJECT

8.1.1. WHEN THE POWER CAN BE TURNED OFF

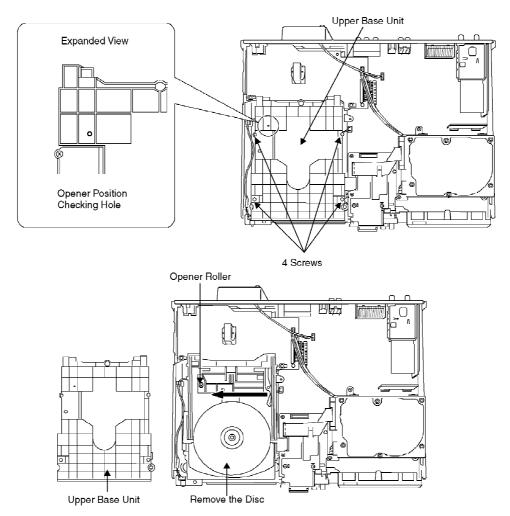
1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

8.1.2. WHEN THE POWER CAN NOT BE TURNED OFF

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

8.2. WHEN THE FORCIBLE DISC EJECT CAN NOT BE DONE

- 1. Turn off the power and pull out AC cord.
- 2. Remove the Top Case and the Front Panel.
- 3. Remove 4 screws and Upper Base Unit from DVD-RAM Drive.
- 4. Take out the disc and put the Opener Roller on fully position for direction of Arrow.
- 5. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
- 6. Check Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws.



9. (DVD) SERVICE EXPLORER

Confirm "RAM-Drive Last Error" in Service Mode

Execute Service Mode

1. Press [REC], [CH UP] and [OPEN/CLOSE] simultaneously for 5 seconds when P-off.

FL Display:

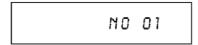
SERVICEMODE

*After finishing display "(7). Factor of Drive Error occurring", press [0] [2] ~[1] [9] keys of the Remote Controller so that 19 memories can be displayed as maximum.

2. Press [4] [2] keys of remote controller.

Example of FL Display:

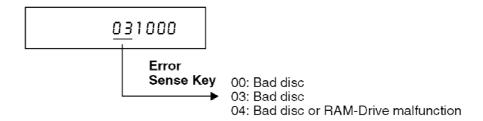
(1) Error Number is displayed for 5 seconds.



(2) Time when the error has occurred is displayed for 5 seconds.

The error has occurred at 2005(year)/Feb.(month)/16(day)/19(hour):15(minute):26(second)

(3) Last Drive Error (1/2) is displayed for 5 seconds.



When above error codes are displayed, confirm operation with Panasonic RAM or DVD-R disc. /* If the operation is OK, judge the error is due to media. /* If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital / appears, judge the error is due to RAM-Drive or Digital P.C.B. .

(4) Last Drive Error (2/2) is displayed for 5 seconds.

00130000

/ / (5) Error occurring Disc type is displayed for 5 seconds.



(6) Disc Maker's ID is displayed for 5 seconds.

MXL R 051

^{*}This error code is unnecessary for service

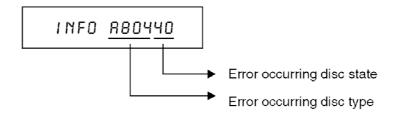
Example of Disc Maker's ID: DVD-R Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	С
1	MEI	Panasonic	Japan
2	PVC	Pioneer	Japan
3	MCC	Mitsubishi Chemical Corporation	Japan
4	TDK	TDK	Japan
5	MXL	Maxell	Japan
6	MCI	MITUI CHEMICALS	Japan
7	JVC	Victor JVC	Japan
8	TAIYOYUDEN	Taiyo yuden	Japan
	TYG		
9	GSC	Giga Storage	Taiwa
10	PRODISC	Prodisc	Taiwa
11	PRINCO	PRINCO	Taiwa
12	RITEK	RITEK	Taiwa
13	OPTDISC	OPTDISC	Taiwa
14	LEAD DATA	LEAD DATA	Taiwa
15	СМС	СМС	Taiwai
16	AUVISTAR	AUVISTAR	Taiwai
17	ACER	Acer	Taiwai
18	VIVASTAR	VIVASTAR	Switze
19	LGE	LG Electronics	Korea

DVD-RAM Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	С
1	MEI	Panasonic	
2	MATSUSHITA	Panasonic	Japan
3	MXL	Maxell	Japan
4	PRODISC	Prodisc	Taiwa
5	OPTDISC	OPTDISC	Taiwa
6	СМС	СМС	Taiwa

^{*}Since the disc information can be changed without information from the producer, the abovementioned display may be changed. Please make it reference as an example of a display. (7) Factor of Drive Error occurring is left displayed



Error Occurring Disc Type

FL Display	Disc Type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

Error Occurring Disc State

FL Displays	Description					
(Hexadecimal)	Disc distinction state	Cartridge disc state	Cartridge disc state	Di		
00	ОК	With cartridge	Has not been opened yet.	12 cm		
10	ок	With cartridge	Has not been opened yet.	8 cm		
20	ОК	With cartridge	Has been opened.	12 cm		
30	ОК	With cartridge	Has been opened.	8 cm		
40	ок	Bare	Has not been opened yet.	12 cm		
50	ок	Bare	Has not been opened yet.	8 cm		
60	ОК	Bare	Has been opened.	12 cm		
70	ОК	Bare	Has been opened.	8 cm		
80	NG	With cartridge	Has not been opened yet.	12 cm		
90	NG	With cartridge	Has not been opened yet.	8 cm		
A0	NG	With cartridge	Has been opened.	12 cm		
В0	NG	With cartridge	Has been opened.	8 cm		
C0	NG	Bare	Has not been opened yet.	12 cm		
D0	NG	Bare	Has not been opened yet.	8 cm		
E0	NG	Bare	Has been opened.	12 cm		
F0	NG	Bare	Has been opened.	8 cm		

10. SELF-DIAGNOSIS AND SPECIAL MODE SETTING

10.1. SELF-DIAGNOSIS FUNCTIONS

Self-Diagnosis Function provides information for errors to service personnel by "Self-Diagnosis Display"

when any error has occurred.

U**, H** and F** are stored in memory and held.

You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode. Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL
U30	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	REMOTE
				"*" is remote co
				code of the mair
				Display for 5 sec
U59	Abnormal inner temperature	Display appears when the drive temperature exceeds 70°C.	No display	
	detected	The power is turned off forcibly.		
		For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the		"U59 is displaye minutes.
		remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.		
U80	ST	Displayed appears when ST	No display	
	Microprocessor Communication	Microprocessor Communication Error on Timer Bus occurs.		
	Error on Timer			"U80" is display
	Bus			Power Key is pr
U81	ST	Displayed appears when ST	No display	
	Microprocessor Communication	Microprocessor Communication Error on UART occurs.		
	Error on UART			"U81" is display
				Power Key is pr

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.	No display	Displayed is left [POWER] key is
H19	Inoperative fan motor	When inoperative fan motor is detected after powered on, the power is turned off automatically. The event is saved in memory.	No display	No display
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	No display
F58	Drive hardware error	When drive unit error is detected, the event is saved in memory.	No display	No display
F34	started up for	When initialization error is detected after starting up main microprocessor for program recording, the power is turned off automatically. The event is saved in memory.	No display	No display
UN- SUPPORT	Unsupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty.	"This disc is incompatible."	UNSUP
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	"Cannot read. Please check the disc."	00
HARD ERR	Drive error	The drive detected a hard error.	"DVD drive	Display for 5 sec
			error."	HAR

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the	No display	SELFC
		possibility that defective Digital P.C.B. / RAM drive.		
Full Program	32 programs are already set.	32 programs are already set.	No display	PROG
UN- FORMAT	Unformatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or	Format: This disc is not	UNFO
		recorded on other equipment.	formatted properly.	
		If you will use this disc, format is	Format the disc in DISK	
		necessary. But, all program recorded on this disc will be deleted.	MANAGEMENT	?
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. "BYE" is displayed and power will be turned off.	No display	PLERSE
		In case "Quick Start" of setup menu is ON, it is displayed in restoration operation for AC off.		

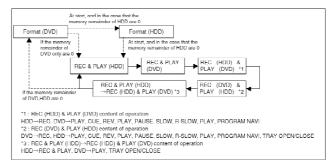
10.2. SPECIAL MODES SETTING

	Item	FL display	Key opera
Mode name	Description		Front K
TEST Mode	*All the main unit's parameters (include tuner) are initialized.	TEST AVI	Press [STOP], [Gand [OPEN/CLO simultaneously seconds when poff.
Rating password	The audiovisual level setting password is initialized to "Level 8".	INIT	Open the tray, a [REC] and [PLA simultaneously seconds.
			Drive should be to DVD.
Service Mode	Setting every kind of modes for servicing. *Details are described in "Service Mode".	SERVICEMODE	When the power press [CH UP], CLOSE] and [RI simultaneously seconds.
Forced disc eject	Removing a disc that cannot be ejected.	The display before execution leaves.	When the power press [STOP] ar
	The tray will open and unit will shift to P-off mode. *When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing Timer REC or EXT-LINK. *This command is not effective during "Child lock" is ON. While Demonstration Lock is being set, this Forced disc eject function is not accepted. If this command was executed while TIMER REC is being set, TIMER REC setting will turn to OFF.	*****	keys simultaneously seconds.
Child lock/unlock	Set or release "Child Lock".	XHOLD	Press [ENTER] a [RETURN] by re controller simul until [X-HOLD] i displayed.

	Item	FL display	Key opera
Mode name	Description		Front K
NTSC/PAL system select	To switch PAL/NTSC alternately.	The display before execution leaves.	While the power E mode), press
		*******	and [OPEN/CLO simultaneously seconds.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly. *When Timer REC is ON or EXT-LINK is ON, execute "Forced Power-off" after releasing Timer REC or EXT-LINK.	Display in P-off mode.	Press [Power] k than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually. Caution: All programs in HDD and DVD-RAM disc will be deleted because Formatting is done once in Aging process.	Display following the then mode.	When the power press [STOP], [I and [OPEN/CLO simultaneously seconds and les seconds. NOTE1: If Unit has not to to Aging mode by operations show execute TEST M and re-execute operations are initialized by mode.) NOTE2: If the unit has how to be a condense of pression of the power-execute this condense of the power-execute thi

ltem		FL display	Key opera
Mode name	Description		Front K

Aging Contents (Example):



Demonstration	Ejection of the disc is prohibited.	*When lock the tray.	When the power	
lock/unlock	The lock setting is effective until unlocking the tray and not released by "Main unit	LOCK	press [STOP] ar [POWER] keys simultaneously seconds.	
	initialization" of service mode.	"LOCK" is displayed for 3 seconds.		
		*When unlock the tray.	When the power	
		UNLOCK	press [STOP] ar [POWER] keys simultaneously	
		"UNLOCK" is displayed for 3 seconds.	seconds.	
		*When press OPEN/ CLOSE key while the tray being locked.	Press [OPEN/CI while the tray be locked.	
		LOCK		
		Display "LOCK" for 3 seconds.		
ATP re-execution	Re-execute ATP.	Display at ATP executing.	When the power	
		*******	E mode), press and [CH DOWN] simultaneously	
			seconds.	
Progressive initialization	The progressive setting is initialized to	The display before execution leaves.	When the power E mode), press	
	Interlace.	*******	and [PLAY] simultaneously seconds.	

10.3. SERVICE MODES

Service mode setting: While the power is off, press REC, CH UP and OPEN / CLOSE simultaneously for five seconds.

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Release Items	Item of Service Mode executing is cancelled.	SERVICEMODE	Press [0] [0] or service mode.
Error Code Display	Last Error Code of U/H/F held by Timer is displayed on FL.	\$ 00	Press [0] [1] in s mode
	*Details are described in "Self-Diagnosis Functions".	* shows U/H/F	
ROM Version Display	Region code, MAIN firm version, TIMER firm version and DRIVE	REGION*	Press [0] [2] in s
	firmware versions are displayed on FL for five seconds per each version in order, but ROM version will be left displayed.	MHIN *****	
		T / MER****	
		DRIVE ****	
		ROM * ***	
		"" are version displays.	
White Picture Output	White picture is output as component Output from AV	*Initial mode is "Interlace".	Press [1] [1] in s mode.
	*It is enable to switch Interlace/	UHITE I	
		Switch Interlace/ Progressive	Press [1] [4] in \ Picture Output r
	[4]"	WHITE P	*I/P are switched alternately.

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Magenta Picture Output	Magenta picture is output with Component Output from AV Decoder.	*Initial mode is "Interlace".	Press [1] [2] in s mode.
	*Magenta picture (Saturation rate: 100%)	MAGE I	
	*It is enable to switch Interlace/ Progressive by "I/P switch: [1] [4]"	Switch Interlace/ Progressive MRGE P	Press [1] [4] in In Picture Output re *I/P are switcher alternately.
RTSC Return in	AV1 input signal is encoded (XP), decoded (XP) and output	Initial mode: EE2/ Interlace / XP/ Audio 48kHz	
(A & V)	decoded signal to external without DISC recording and DISC playback.	EE2 XP 48	
	ріауваск.	Switch Interlace/ Progressive	Press [1] [4] in F Return XP mode
		EE2 P XP 48	*I/P are switched alternately.
		Audio 44.1 kHz/ 48 kHz Switch	Press [2] [4] in F
		EE2 P XP 44	*48 kHz / 44.1 kł switched alterna
I/P Switch	Switch Interlace and Progressive	Initial mode is Interlace	Press [1] [4] in I
	in EE mode. *Initial setting is "Interlace".	SERVICE I	*I/P are switched
	*This command is effective during executing "White Picture Output", "Magenta Picture Output" and "RTSC Return in XP	Switch Interlace/ Progressive	alternately.
	(A & V)" modes.	SERVICE P	
DVB signals out	Colourbar picture is output with YC output from IRD decoder.	DVB BAR	Press [1] [5] in s mode.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.	TIMER MUTE	Press [2] [1] in s mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B	MRIN MUTE	Press [2] [2] in s mode.

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Audio Pattern	The audio pattern stored in the	Initial mode (Audio 48kHz)	Press [2] [3] in s
Output	internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB) *Audio sound clock switching operation	яиріо чв	mode.
		Audio 44.1kHz/48kHz switching	Press [2] [4] in A
	of DAC can be confirmed by sub command [2] [4].	яиріо чч	*48 kHz / 44.1 kl switched alterna
HDD READ	Perform a complete read	When the HDD is OK	Press [3] [1] in t
inspection	inspection of the HDD.	HDD RDOK	mode. * When cancelin
		If the HDD is defective	checking mode executing, do "f power-off".
		HDD RDNG□00	Method: Press t "POWE" button
		□: Judge of Forward rate. * When normal (Forward rate is 35 Mbps or more and there is no HDD error): □ is Space. * When Abnormal (Forward rate is less than 35 Mbps or HDD error existing): □ is X. ○ ○: Number of what have spent time for seeking is over 100ms. * When normal: ○ ○ are spaces. * When Abnormal: Display Number of what have spent time fore seeking over 100 ms. However, if the number is more than 100, display [XX]. We judge it is normal that the number is less than 4.	than 10 seconds

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Laser Used Time Indiction	Check laser used time (hours) of drive.	LR5ER****	Press [4] [1] in s mode.
		 (*****) is the used time display in hour. Laser used time of DVD / CD in Playback/ Recording mode is counted. 	
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	CLR LASER	Press [9] [5] in s mode.

	Item	FL display	Key opera
Mode name	Description		(Remote contr
RAM Drive Last	RAM Drive error code display.	1. Error Number is	Press [4] [2] in s
Error	*For details about the drive error code, refer to the Service Manual for the specific RAM Drive.	displayed for 5 seconds.	mode.
		NO **	When "INFO**** being
	*Details are described in "Service Explorer".	2. Time when the error has occurred is displayed for 5 seconds.	displayed, past histories can be by pressing [0] [1]
		Y: Year	
		MM: Month	
		DD: Day	
		hh: Hour	
		mm: Minute	
		ss: Second	
		3. Last Drive Error (1/2) is displayed for 5 seconds.	

		4. Last Drive Error (2/2) is displayed for 5 seconds.	

		5. Error occurring Disc type is displayed for 5 seconds.	
		MED18****	
		6. Disc Maker ID is displayed for 5 seconds.	In case that the
		******	cannot be identi display is black
		7. Factor of Drive Error occurring is left displayed	
		1F0*****	

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD RAM-Drive.	CLR DRIVE	Press [9] [6] in s mode.
Turn on all FL/ LEDs	All segments of FL and all LEDs are turned on.	All segments are turned on.	Press [5] [1] in s mode.
PB HIGH Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is High (approx. 11V DC).	PB8 HIGH	Press [5] [2] in s mode.
PB MIDDLE Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is Middle (approx. 5.5V DC).	PB8 MIDDLE	Press [5] [3] in s mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front key Switches.	<u>000Γ</u> ** (1) (2)	Press [5] [4] in s mode.
		(1) Each time a key is pressed, segment turned on increases one by one.(2) Total umber of keys that have been pressed.	
Production Date Display	Display the date when the unit was produced.	bo aaaawwoo	Press [6] [1] in s mode.
		YYYY: Year MM: Month DD: Day	
Display the accumlated working time	Display the accumulated unit's working time.	*******	Press [6] [4] in s mode.
		(Indicating unit: Second)	

	Item	FL display	Key opera
Mode name	Description		(Remote contr
Display the Error History	Display the Error History stored on the unit.	Display reason of error for 5 seconds.	Press [6] [5] in s
		FTREC***	Then press [0] [the past 19 erro are displayed.
		01: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 02: Defect of RAM Drive. 03: Defect of Disc. 04: Defect of Digital P.C.B. or Communication Error. 05: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 06: Defect of HDD.	
		Display the time when the error has occurred for 5 seconds	
		YY: Year MM: Month DD: Day HH: Hour MM: Minute Accumulated working time till occuring of the error is left displayed. *********	
		(Indicating unit: Second)	
Delete the Error History	Delete Error History information stored on the unit.	CLR FTREC	Press [9] [7] in s mode.

	Item	FL display	Key opera
Mode name	Description		(Remote cont
SD card WRITE check	Check SD card WRITE function with SD card slot.	When the WRITE check is OK.	Insert a SD card card slot, and p
		SDCD OK	* Insert SD card
		When the WRITE check is NG.	power is off. * Check for [CA display on the I and go on the p
		SDCD NG	
		*Note: The image stored in the SD card will be erased.	
AV4(V) / AV1(RGB) I/O Setting	Set input to AV4 (V) and set output to AV1 (RGB) for I/O checking	RV4V-RV1RGB	Press [8] [0] in mode.
AV2(Y/C) / AV1(V) /O Setting	Set input to AV2 (Y/C) and set output to AV1 (V) for I/O checking	8N5AC-8N1N	Press [8] [1] in mode.
AV2(V) / AV1(Y/C) /O Setting	Set input to AV2 (V) and set output to AV1 (Y/C) for I/O checking	ארבת-שמו אכ	Press [8] [2] in a mode.
AV2(RGB) / AV1(V) I/O Setting	Set input to AV2(RGB) and set output to AV1(V) for I/O checking	RV2RGB-AVIV	Press [8] [3] in a mode.
P50(H) Output	Timer Microprocessor IC7501-83 output High signal for AV1-pin 10 passing through inverter	PSO HIGHOUT	Press [8] [4] in a mode.
	(approx. 0V DC at AV1-pin 10).	When OK.	
		P50 HIGH OK	
		When NG.	
		PSO HIGH NG	

	Item	FL display	Key opera
Mode name	Description		(Remote contr
P50(L) Output	Timer Microprocessor IC7501-83 output Low signal for AV1-pin 10 passing through inverter	PSO LOW OUT	Press [8] [5] in s mode.
	(approx. 4.4V DC at AV1-pin 10).	When OK.	
		PSO LOW OK	
		When NG.	
		PSO LOW MG	
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.	N0******	Press [9] [1] in s
		"*" is number of open/close cycle times.	*When releasing mode, press the button of Remore Controller more seconds.
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR E-CODE	Press [9] [8] in s mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory	CLR SERV	Press [9] [9] in s mode.
	setting.		
Finishing service mode	Release Service Mode.	Display in STOP (E-E) mode.	Press power bu
		******	controller in service mode.

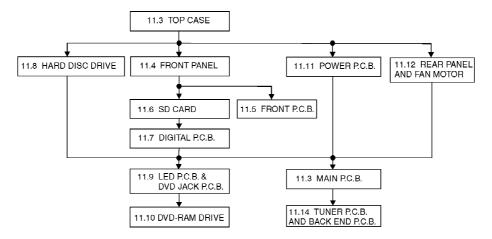
11. ASSEMBLING AND DISASSEMBLING

Caution: Oringal screws shoul be used.

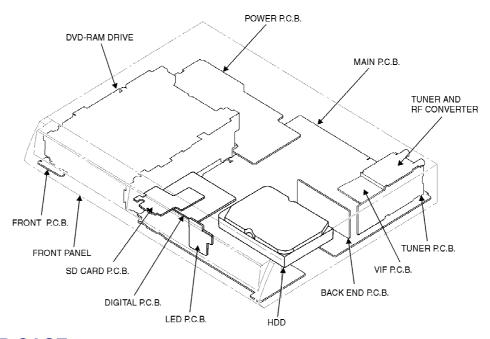
11.1. DISASSEMBLY FLOW CHART

This chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.

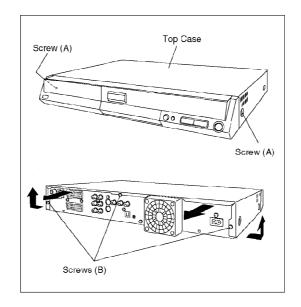


11.2. P.C.B. POSITIONS



11.3. TOP CASE

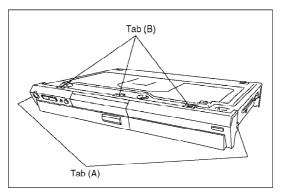
- 1. Remove the 2 screws (A) and 3 screws (B).
- 2. Slide Top Case rearward and open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.



11.4. FRONT PANEL

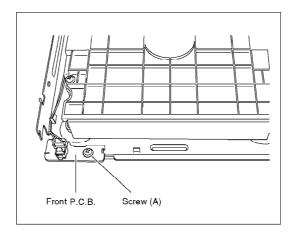
1. Unlock 2 tabs (A) and 3 tabs (B) in this order to remove Front Panel.

The tab (A) and (B) should be unlocked at the same time, respectively.



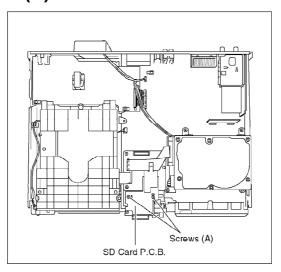
11.5. FRONT P.C.B.

1. Remove the Screw (A) to remove Front P.C.B. .



11.6. SD CARD P.C.B.

1. Remove 2 Screws (A) to remove SD Card P.C.B. .



11.7. DIGITAL P.C.B.

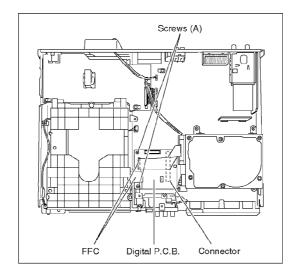
Note:

When replacing the Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.

After that all programme in the HDD will be lost.

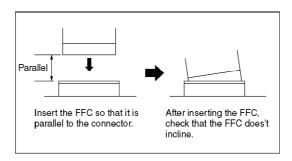
How to format the HDD.

- After "UNFORMAT" is is displayed on the FL display, / warning message for HDD format is appeared on the / TV screen.
- Select "YES" and press "ENTER" button on the / remote control; the HDD will be formatted automatically.
- 1. Remove 2 FFCs and 2 Screws (A).
- 2. Lift up Digital P.C.B. slightly so to disconnect Connector to remove Digital P.C.B.



Caution:

When replacing Digital P.C.B., pay attention as below.

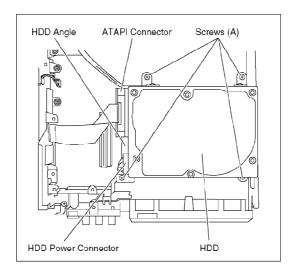


11.8. HARD DISC DRIVE

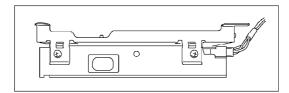
Note:

When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD (HARD DISC DRIVE) must be formatted. After that all programme in the HDD will be lost. How to format the HDD.

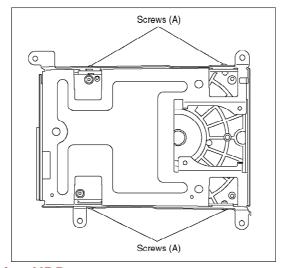
- After "UNFORMAT" is is displayed on the FL display, / warning message for HDD format is appeared on the / TV screen.
- Select "YES" and press "ENTER" button on the / remote control; the HDD will be formatted automatically.
- 1. Remove ATAPI Connector and HDD Power Connector.
- 2. Remove 4 Screws (A) to remove HDD Angle with HDD.



3. Put HDD with HDD Angle up and down inversely so as not to give a shock to HDD.

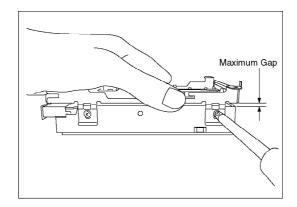


4. Remove 4 screws to remove HDD.



Caution for Attaching HDD

Put HDD up and down inversely so as not to give a shock to HDD, and put HDD Angle on to HDD and tighten 4 screws while lifting HDD Angle so as to keep maximum gap between HDD and HDD Angle.



Handling of HDD

The following precautions should be taken when handling HDD.

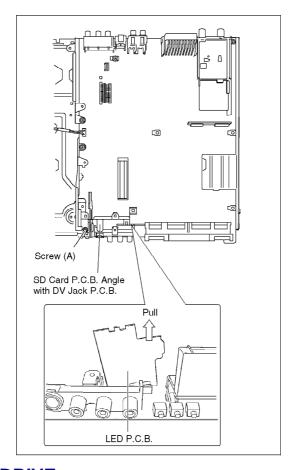
- 1. Never give an impact to HDD. (Even a drop from 1 cm height can be a cause of HDD failure).
- 2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.
- 3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.
- 4. Avoid stacking up HDD.
- 5. HDD is unstable and easy to fall. Do not stand it on its side face.
- 6. When handling HDD, hold its side faces to avoid static hazard.
- 7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard.)
- 8. Use a screwdriver with low impact and anti-static features.

 Note:

When replacing HDD, please make the rear jumper slave or cable select configuration.

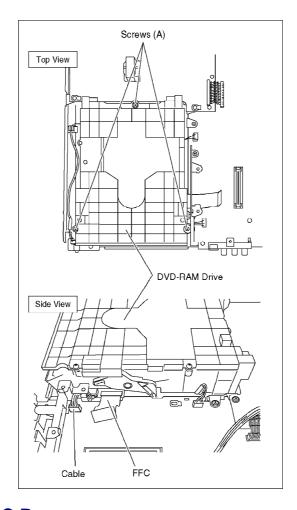
11.9. LED P.C.B. & DV JACK P.C.B.

- 1. Remove a Screw (A) to remove SD Card P.C.B. Angle with DV Jack P.C.B.
- 2. At first disconnect the connector on one side as shown below, and pull out LED P.C.B.



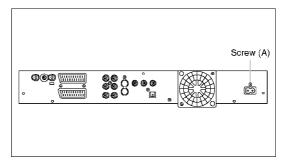
11.10. DVD-RAM DRIVE

- 1. Remove 3 Screws (A) to remove DVD-RAM Drive.
- 2. Lift up DVD-RAM Drive slightly and remove FFC and remove Cable between DVD-RAM Drive and Main P.C.B.

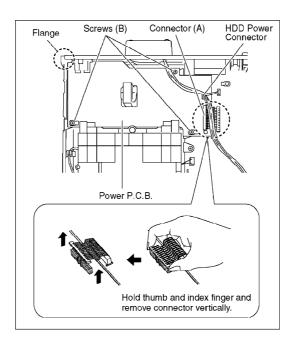


11.11. POWER P.C.B.

1. Remove Screw (A).

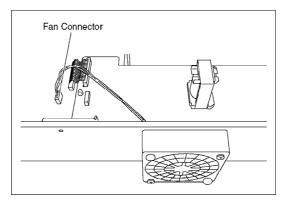


- 2. Remove 3 Screws (B) and disconnect Connector (A) and HDD Power Connector.
- 3. Unlock Power P.C.B. from a Flange to remove Power P.C.B.

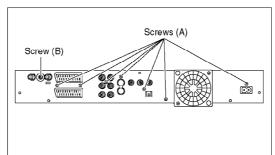


11.12. REAR PANEL

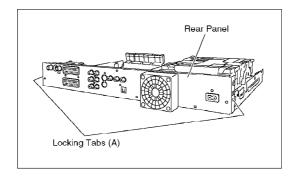
1. Disconnect Fan Connector.



2. Unlock 2 Locking Tabs (A) to remove Rear Panel.

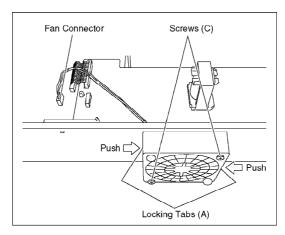


3. Unlock 2 Locking Tabs (A) to remove Rear Panel.



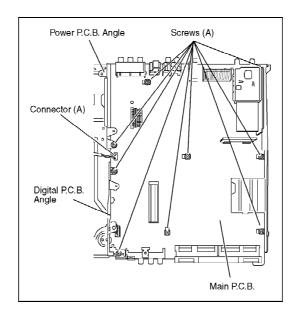
11.12.1. FAN MOTOR

- 1. Disconnect Fan Connector and remove 2 Screws (C).
- 2. Push and unlock 2 locking Tabs (A) to remove Fan Motor.
- 3. Unlock the 2 Tabs and remove the Fan Motor Unit.



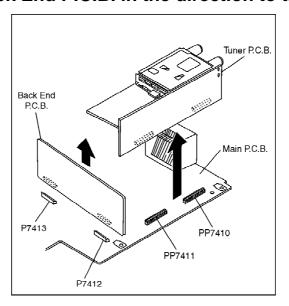
11.13. MAIN P.C.B.

- 1. Disconnect Connector (A) for Front (L) P.C.B.
- 2. Remove 5 Screws (A).
- 3. Remove Digital P.C.B. Angle and SD Card P.C.B. Angle with DV Jack P.C.B. and disconnect Connector (A) to remove Main P.C.B.



11.14. TUNER P.C.B. / AND BACK END P.C.B.

- 1. Pull out the Tuner P.C.B. in the direction of the arrow.
- 2. Pull out the Back End P.C.B. in the direction to the arrow.



12. SERVICE FIXTURE AND TOOLS

Part Number	Description	Compatibilit
RFKZ0125	Extension FFC (Digital P.C.B DVD-RAM Drive / 40 Pin)	Same as E30/HS2/E! ES10 series
RFKZ0126	Extension Cable (Main P.C.B DVD-RAM Drive/ 4 Pin)	Same as E30/HS2/E5 series
RFKZ0216	Extension Cable (Main P.C.B Power P.C.B. / 23 Pin)	Same as E50/EH55 s

13. SERVICE POSITIONS

Note:

For description of the disassembling procedure, see the section 10.

13.1. CHECKING AND REPAIRING OF POWER P.C.B.

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear
- Remove Top Case

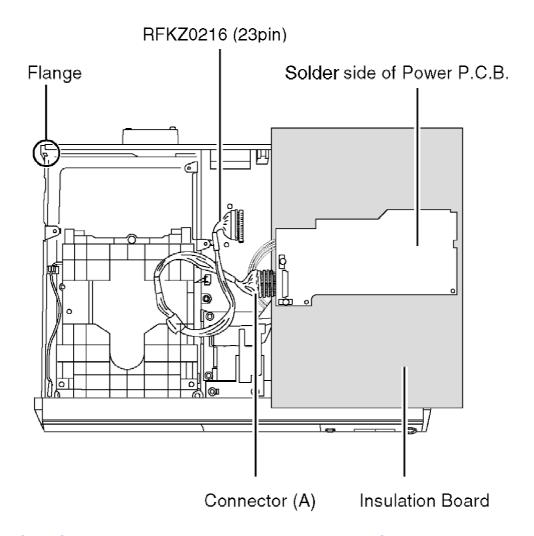
2. Power P.C.B.

- Remove 1 Screw for AC Inlet fixing
- Remove 3 Screws fixing Power P.C.B.
- Remove Connector (A) to Main P.C.B.
- Unlock Power P.C.B. from a Flange to remove Power P.C.B.
- Connect Extension Cable:
- between Main P.C.B. and Power P.C.B. with RFKZ0216
- Put Power P.C.B. on Insulation Board so that it's solder side faces top

Caution 1

Red wire in the extension cable should be connected to (1) pin Caution 2

Orginal screws should be used



13.2. CHECKING AND REPAIRING OF MAIN P.C.B.

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear
- Remove Top Case

2. Front Panel

- Unlock 2 Locking Tabs on side
- Unlock 3 Locking Tabs on bottom
- Remove Front Panel

3. Fan Motor

- Remove 2 Screws fixing Fan Motor
- Disconnect Fan Cable Connector
- Unlock 2 Locking Tabs to remove Fan Motor

4. Rear Panel

- Remove 8 Screws (one is for Tuner)
- Unlock 2 Locking Tabs on side
- Remove Rear Panel

5. Power P.C.B.

- Remove 3 Screws fixing Power P.C.B.
- Remove Connector (A) to Main P.C.B.
- Unlock Power P.C.B. from a Flange to remove Power P.C.B.

6. SD Card P.C.B.

- Remove 2 Screws
- Remove SD Card P.C.B.

7. Digital P.C.B.

- Remove FFC from Digital P.C.B.
- Remove 2 Screws fixing Digital P.C.B.
- Lift up Digital P.C.B. slightly to remove it

8. HARD DISC DRIVE

- Remove 4 Screws fixing HDD Angle to remove it from the HARD DISC DRIVE
- 9. Digital P.C.B. Angle & SD Card P.C.B. Angle with DV Jack P.C.B.
 - Remove 3 Screws to remove Digital P.C.B. Angle and SD Card P.C.B. Angle with DV Jack P.C.B.

10. DVD-RAM Drive

- Remove Cable between DVD-RAM Drive and Main P.C.B.
- Remove 3 Screws fixing DVD-RAM Drive
- Lift up DVD-RAM Drive to remove it
- Remove FFC from DVD-RAM Drive

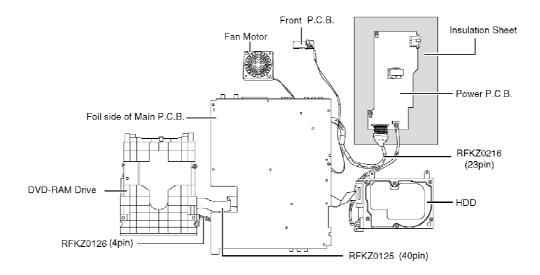
11. Main P.C.B.

- Remove the Screw to remove Front (L) P.C.B.
- Unlock Clamper for Main-Front (L) Cable
- Remove 2 Screws to remove Main P.C.B.
- Attach Digital P.C.B. on to Main P.C.B.
 Connect Fan Connector.
 Connect Extension Cable:
- between Main P.C.B. and DVD-RAM Drive / with RFKZ0126
- between Digital P.C.B. and DVD-RAM Drive / with RFKZ0125
- between Main P.C.B. and Power P.C.B. / with RFKZ0216

Caution 1

Red wire in the extension cable should be connected to (1) pin. Caution 2

Orginal screws should be used.



13.3. CHECKING AND REPAIRING OF DVD-RAM DRIVE

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear
- Remove Top Case

2. Front Panel

- Unlock 2 Locking Tabs on side
- Unlock 3 Locking Tabs on bottom
- Remove Front Panel
- 3. SD Card P.C.B.
 - Remove 2 Screws
 - Remove SD Card P.C.B.
- 4. Digital P.C.B.
 - Remove FFC from Digital P.C.B.
 - Remove 2 Screws fixing Digital P.C.B.
 - Lift up Digital P.C.B. slightly to remove it

5. HDD

- Remove 4 Screws fixing HDD Angle to remove it with HDD
- 6. SD Card P.C.B. Angle with DV Jack P.C.B.
 - Remove a Srew to remove SD Card P.C.B. Angle with DV Jack P.C.B.

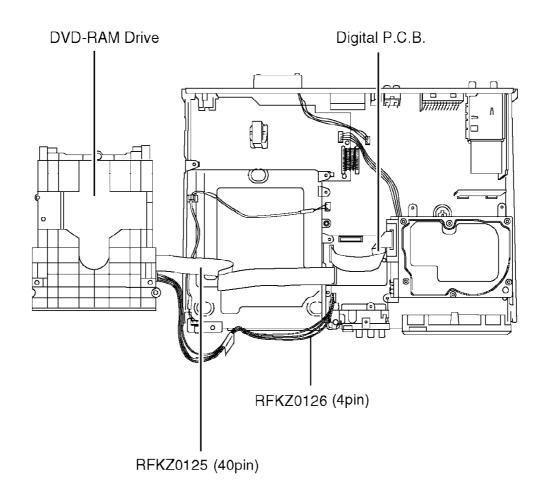
7. DVD-RAM Drive

- Remove 3 Screws fixing DVD-RAM Drive
- Lift up DVD-RAM Drive slightly and remove FFC from DVD-RAM Drive and remove Cable between DVD-RAM Drive and Main P.C.B.

- Remove FFC from DVD-RAM Drive
- Attach Digital P.C.B.
 Put DVD-RAM Drive on side.
 Connect Extension Cable:
- between Main P.C.B. and DVD-RAM Drive / with RFKZ0126
- between Digital P.C.B. and DVD-RAM Drive / with RFKZ0125

Caution

Orginal screws should be used.



13.4. CHECKING AND REPAIRING OF HDD

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear

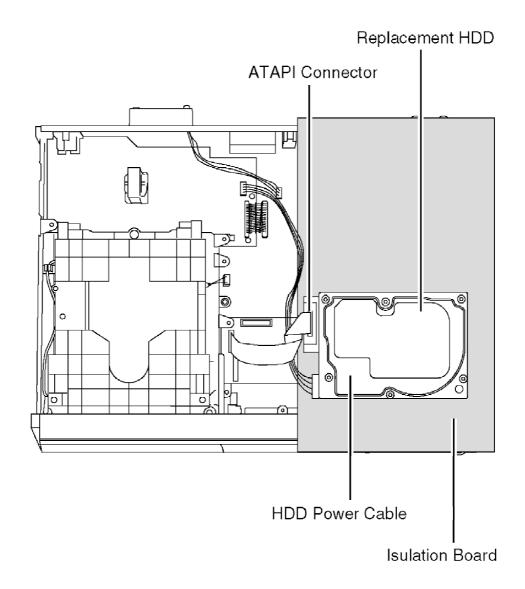
- Remove Top Case

2. HDD

- Disconnect HDD ATAPI Connector
- Remove 4 Pin Power Cable from HDD
- Connect HDD ATAPI Connector to Replacement HDD
- Connect 4 Pin Power Cable to Replacement HDD
- Put Replacement HDD on Insulation Board

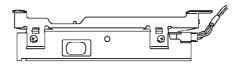
Caution

Orginal screws should be used.



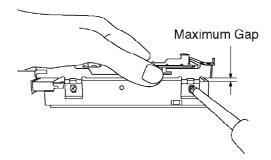
Caution for Removing HDD

Put HDD with HDD Angle up and down inversely and remove 4 screws to remove HDD so as not to give a shock to HDD.



Caution for Attaching HDD

Put HDD up and down inversely and put HDD Angle on to HDD and tighten 4 screws while lifting HDD Angle so as to keep maximum gab between HDD and HDD Angle.



14. CAUTION AFTER REPLACING PARTS

14.1. AFTER REPLACING THE DVD-RAM DRIVE WITH NEW ONE

After replacing RAM drive unit, TEST mode is not necessary. Please confirm operation for RAM drive.

14.2. WHEN THE UNIT DOES NOT OPERATE NORMALLY AFTER REPLACING THE TIMER MICROPROCESSOR OR MAIN P.C.B.

When the unit does not operate normally after replacing the Timer Microprocessor or Main P.C.B. with new one, reset Timer Microprocessor.

Step	Operation	Descriptions
1	While power is ON, short IC7502-4 pin (RESET)	"RESET (L)" is transmitted to the XRI
	and the	Timer
	GND momentarily.	Microprocessor (IC7501-11 pin), then
		operates normally.

15. STANDARD INSPECTION SPECIFICATIONS

AFTER MAKING REPAIRS

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.
2	Insert RAM disc.	The Panasonic RAM disc should be re
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the sound or operation.
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the sound or operation. *Panasonic DVD-RAM disc should be when recording and playback.
5	Model with the HDD: Problem auto recording and playback for one minute using the HDD.	No abnormality should be seen in the sound or operation.
6	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the sound or operation.
7	Models with SD Card Slot or DV Input Jack: In case of that the trouble is caused by SD card and/or DV terminal.	Models with SD Card Slot or DV Input 1) SD card: Check to be able to displace copy the picture. 2) DV terminal: Check to be able to re DVC.
8	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] app the FL displays. *[UNSUPPORT] display means the un already updated to newest same vers version up is not necessary.
9	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [CLR SERV] appears i display. After checking it, turn the power off.
10	When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time.	Make sure that [CLR LASER] appears display. After that, turn power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			Noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color]	
	Color fading			

16. VOLTAGE AND WAVEFORM CHART

Note:

Circuit voltage and waveform described, shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

16.1. WAVEFORM CHART

17. ABBREVIATIONS

INIT	TIAL/LOGO	ABBREVIATIONS
Α	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMP OUTPUT
		AUDIO WORD DISTINCTION
		SYNC
В	ВСК	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	ВҮРАТН
	BYTCK	BYTE CLOCK

INIT	TAL/LOGO	ABBREVIATIONS
С	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	СРА	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ
	DMUTE	CLOCK
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATA OUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	
	DVD	DATA SLICE LOOP FILTER
		DIGITAL VIDEO DISC

INIT	TIAL/LOGO	ABBREVIATIONS
Е	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL
		REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/
	ETSCLK	40.5MHz)
		EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP
	FEO	INVERTED INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER
		FS (384 OVER SAMPLING)
		CLOCK
G	GND	COMMON GROUNDING
		(EARTH)
Н	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
ı	IECOUT	IEC958 FORMAT DATA
	IPFRAG	OUTPUT
	IREF	INTERPOLATION FLAG
	ISEL	I (CURRENT) REFERENCE
		INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION
		CLOCK

S
NPUT
COMMAND
OMMAND
PUT/OUTPUT
MASK
COMMAND
EXPERTS
NTROLLER
Т
PUT
AY
SE
ASE
N. D.
OLD OCK
CK
TROL
OR DRIVE A
OR OUT A,
on our A,

INIT	TAL/LOGO	ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECT CLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUB CODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	0.00	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATA VALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA

	J. JJ	1
		SYSTEM CLOCK
INI	ΓIAL/LOGO	ABBREVIATIONS
Т	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INI	ΓIAL/LOGO	ABBREVIATIONS
٧	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY
		VOLTAGE
	VCDCONT	VIDEO CD CONTROL
		(TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	vss	VIDEO FEED BACK
		VOLTAGE REFERENCE
		SOURCE POWER SUPPLY
		VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INIT	TAL/LOGO	ABBREVIATIONS
Х	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	xcs	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	ХО	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

18. INTERCONNECTION

19. BLOCK DIAGRAM

- 19.1. POWER BLOCK DIAGRAM
- 19.2. ANALOG VIDEO BLOCK DIAGRAM
- 19.3. ANALOG AUDIO BLOCK DIAGRAM
- 19.4. TIMER BLOCK DIAGRAM

20. SCHEMATIC DIAGRAM

- 20.1. POWER SCHEMATIC DIAGRAM
- **20.2. MAIN NET**
- **20.3. MAIN AV IO**
- **20.4. MAIN TIMER**
- **20.5. MAIN NICAM**

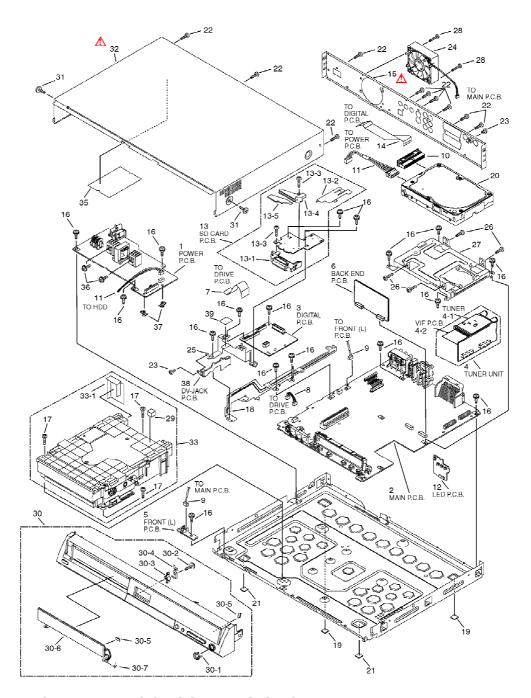
- **20.6. TUNER**
- **20.7. VIF UNIT**
- **20.8. SD CARD**
- 20.9. LED
- 20.10. FRONT

21. PRINTED CIRCUIT BOARD

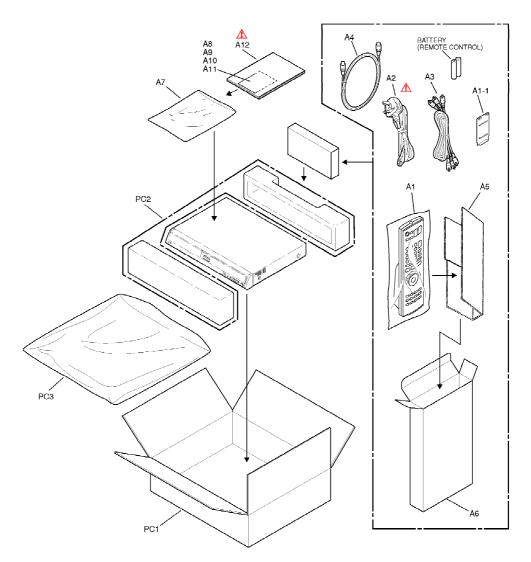
- 21.1. POWER P.C.B.
- 21.2. MAIN P.C.B.
- 21.3. TUNER P.C.B.
- 21.4. VIF P.C.B.
- 21.5. SD CARD
- 21.6. FRONT P.C.B. AND LED P.C.B.

22. EXPLODED VIEWS

22.1. CASING PARTS AND & MECHANISM SECTION



22.2. PACKING & ACCESSORIES SECTION



23. REPLACEMENT PARTS LIST

Notes:

*Important safety notice:

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

- *Warning: This product uses a laser diode. Refer to caution statements.
- *Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).
- *Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).
- *The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.
- *All parts except parts mentioned [SPC] in the Remarks column are supplied from PAVCG.
- *Parts mentioned [SPC] are supplied from PAVC

23.1. CASING PARTS & PRINTED CIRCUIT BOARDS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ 1	VEP01961B	POWER PCB	1	(RTL)
2	REPD0019B	MAIN PCB	1	(RTL)
3	RFKBEH60DEB	DIGITAL PCB	1	(RTL)
<u> </u>	REPD0022A	TUNER UNIT	1	(RTL)
<u>4-1</u>	ENG47409G1F	TUNER	1	(RTL)
4-2	VEP07A71M	VIF PCB	1	(RTL)
<u> </u>	REPD0020A	FRONT L PCB	1	(RTL)
6	REPD0023A	BACKEND PCB	1	(RTL)
<u> </u>	VWJ1775	FFC (40P)	1	
<u>8</u>	VEE1A60	WIRE WITH CONNECTOR (4P)	1	
9	VEE1A61	WIRE WITH CONNECTOR (2P)	1	
10	K1MZ40Z00002	HDD CONNECTOR	1	
11	VEE1A71	HDD CABLE (4P)	1	
■ 12	REPD0021A	LED PCB	1	(RTL)
<u>13</u>	VEP73121E	SD CARD PCB	1	(RTL)
13-1	RYQ0556A-S2	CARD HOLDER ASSY	1	
13-2	RMV0298	FFC HOLDER	1	
13-3	XTN2+8GFJ	SCREW	2	
13-4	RMR1697-W	SD REFLECTOR	1	
13-5	RGL0677-Q	PANEL LIGHT SD	1	
14	VWJ1780	FFC DRIVE-HDD	1	
<u></u> 15	RGR0354F-F1	REAR PANEL	1	Δ
16	RHD30111-3	SCREW	17	
<u> </u>	RHD30115-3	SCREW	3	
	RMA1915-1	DIGITAL ANGLE	1	
<u> 19</u>	RKA0177-K	LEG CUSHION REAR	2	
<u> 20</u>	RFKV0052HDK	HARD DISK DRIVE	1	
<u></u>	RKA0166-T	LEG CUSHION FRONT	2	
 22	VHD0690-1	SCREW	10	
 23	XSN3+4FJK	SCREW	2	
<u> </u>	L6FAKCCE0013	FAN MOTOR	1	
25	RMA1910A	SD CARD ANGLE	1	
<u> 26</u>	RHD32001	SCREW	4	
 27	RMN0823-2	HDD BRACKET	1	
<u>28</u>	XTB3+25JFJK	SCREW	2	
<u>29</u>	RMX0325	MECHA SPACER	1	
30	RYP1269L-S	FRONT PANEL UNIT	1	
<u>30-1</u>	RGK1885-S	REC BUTTON RING	1	
30-2	RHD26045	SCREW (PANEL)	1	
30-3	RMR1698-S	SHAFT HOLDER	1	
30-4	RMC0660	MIRROR EARTH	1	
30-5	RMX0302	DOOR DAMPER	2	
30-6	RKF0730-S	TRAY DOOR	1	
30-7	VMB3410	BLINDER SPRING	1	
<u>31</u>	RHD30113	SCREW TOP CASE SIDE	2	
32	RKM0532A-S	TOP CASE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>33</u>	RFKNVXY1872	RAM DRIVE UNIT	1	Δ
				(RTL) (SPC)
<u>33-1</u>	RMV0302	MECHA BARRIER	1	(SPC)
<u>35</u>	RMV0301	TRANS BARRIER	1	
<u>36</u>	XYN3+J8FJ	SCREW	2	
<u>37</u>	RMX0323	PCB SPACER	2	
<u>■ 38</u>	VEP73133A	DV JACK PCB	1	(RTL)
<u>39</u>	RMV0305	SD BARRIER	1	

23.2. PACKING & ACCESSORIES PARTS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>A1</u>	EUR7729KH0	REMOTE CONTROL	1	
<u>A1-1</u>	UR77EC2903	BATTERY COVER	1	
<u>A2</u>	RJA0044-3C	AC CORD	1	Δ
<u>A3</u>	K2KA6BA00003	AV CORD	1	
<u>A4</u>	K1TWACC00001	RF CABLE	1	
<u>A5</u>	RPQ1594	PAD (C)	1	
<u>A6</u>	RPQFD0008	ACCESSORY BOX	1	
<u>A7</u>	RPFD0007	PE-BAG	1	
<u>88</u>	RQCA1395	CARD CAUTION SHEET	1	
<u>A9</u>	RQCAD0023	QUICK START GUIDE	1	
<u>A10</u>	RQCAD0028	TV GUIDE LEAFLET	1	
<u>A11</u>	RQCC2704	DVD-MEDIA LEAFLET	1	
<u>A12</u>	RQTD0170-B	О/І ВООК	1	Δ
PC1	RPG7640	CARTON BOX	1	
PC2	RPN1798	CUSHION SET	1	
PC3	RPFD0004	MIRAMAT BAG	1	

23.3. ELECTRICAL PARTS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C0701	EEAGA1H1R0B	ALU ELEC CAPACITOR	1	
C0702	D0GB102JA057	CHIP RESISTOR	1	
C0703	EEAGA1H1R0B	ALU ELEC CAPACITOR	1	
C0704	ECJ1VB1E683K	CHIP CAPACITOR	1	
C0705	F1H1E104A050	CHIP CAPACITOR	1	
C0706	ECJ2VB1H333K	CHIP CAPACITOR	1	
C0707	EEAGA1HR47B	ALU ELEC CAPACITOR	1	
C0709	F1H1H1030007	CHIP CAPACITOR	1	
C0710	F1H1H1030007	CHIP CAPACITOR	1	
C0711	EEAGA1C220B	ALU ELEC CAPACITOR	1	
C0712	F1H1C104A008	CHIP CAPACITOR	1	
C0713	F2A0J101A012	ALU ELEC CAPACITOR	1	
C0714	F1J1C1050030	CHIP CAPACITOR	1	
C0721	ECJ2VC1H330J	CHIP CAPACITOR	1	
C0724	ECJ2VF1H103Z	CHIP CAPACITOR	1	
C0725	F1H1H1200004	CHIP CAPACITOR	1	
C0727	ECJ1VC1H390J	CHIP CAPACITOR	1	
C0728	ECJ1VC1H560J	CHIP CAPACITOR	1	
C0728	ECJ1VC1H360J	CHIP CAPACITOR	1	
C0732	F1H1H1010005	CHIP CAPACITOR	1	
C1120	ECQU2A223MLC	EMI CAPACITOR	1	Δ
				_
C1121	ECQU2A683MLC	X2 CAPACITOR	1	⚠
C1122	F1B2G1020002	CERAMIC CAPACITOR	1	
C1123	F1B2G1020002	CERAMIC CAPACITOR	1	
C1125	F1B2G1020002	CERAMIC CAPACITOR	1	
C1143	ECEC2GG680FZ	ALU ELEC CAPACITOR	1	
C1150	EEUFM1V680B	CAPACITOR	1	
C1151	F1B3D102A011	CERAMIC CAPACITOR	1	
C1152	ECJ2VC1H331J	CHIP CAPACITOR	1	
C1153	ECJ2VB1H222K	CHIP CAPACITOR	1	
C1154	ECJ2VB1H102K	CHIP CAPACITOR	1	
C1200	F1J1E104A081	CHIP CAPACITOR	1	
C1201	ECJ2VB1E473K	CHIP CAPACITOR	1	
C1270	F2A1C182A621	ALU ELEC CAPACITOR	1	
C1271	F2A1C182A621	ALU ELEC CAPACITOR	1	
C1272	F2A1C102A625	ALU ELEC CAPACITOR	1	
C1273	EEUFM1C121B	ALU ELEC CAPACITOR	1	
C1274	F1J1E104A081	CHIP CAPACITOR	1	
C1400	EEUFM1E221B	ALU ELEC CAPACITOR	1	
C1401	F1J1C1050030	CHIP CAPACITOR	1	
C1402	ECJ2VB1H103K	CHIP CAPACITOR	1	
C1403	ECJ2VC1H391J	CHIP CAPACITOR	1	
C1404	ECJ2VB1H472K	CHIP CAPACITOR	1	
C1405	ECJ2VB1H102K	CHIP CAPACITOR	1	
C1406	F2A0J681A550	ALU ELEC CAPACITOR	1	
C1407	EEUFM1E221B	ALU ELEC CAPACITOR	1	
C1408	F1J1E104A081	CHIP CAPACITOR	1	
C1409	F1J1E104A081	CHIP CAPACITOR	1	
C1410	F1J1H2230005	CHIP CAPACITOR	1	
C1411	ECJ2VC1H181J	CHIP CAPACITOR	1	
C1412	ECJ2VB1H103K	CHIP CAPACITOR	1	
C1413	F2A1A4710038	ALU ELEC CAPACITOR	1	
C1421	E4 14 E4 0 4 A 0 0 4	CHIP CAPACITOR	1	
J	F1J1E104A081	CHIP CAPACITOR	<u>'</u>	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1504	ECA1EM331B	ALU ELEC CAPACITOR	1	
C1505	F1H0J1050012	CHIP CAPACITOR	1	
C1507	F2A1A101A389	ALU ELEC CAPACITOR	1	
C1508	F1H1H1030007	CHIP CAPACITOR	1	
C1509	F1H0J1050012	CHIP CAPACITOR	1	
C1510	F1H1A105A028	CHIP CAPACITOR	1	
C1511	F1H1A105A028	CHIP CAPACITOR	1	
C1512	F1J0J106A014	CHIP CAPACITOR	1	
C1513	F2A1A4710038	ALU ELEC CAPACITOR	1	
C1514	ECJ2VB1H103K	CHIP CAPACITOR	1	
C1515	F1H1A105A028	CHIP CAPACITOR	1	
C1518	F2A0J681A550	ALU ELEC CAPACITOR	1	
C1519	ECJ1VB1H471K	CHIP CAPACITOR	1	
C1519	F2A1A470A388	ALU ELEC CAPACITOR	1	
C1527	F1H1A1050029	CHIP CAPACITOR	1	
C1527	F1H0J1050029		1	
		CHIP CAPACITOR	_	
C1561	F1H1H1030007	CHIP CAPACITOR	1	
C1562	F1H1A105A028	CHIP CAPACITOR ALU ELEC CAPACITOR	1	
C1571	F2A1A470A388		_	
C1572	F1H1E223A029	CHIP CAPACITOR	1	
C1574	F1J1E105A080	CHIP CAPACITOR	1	
C1575	F1J1E105A080	CHIP CAPACITOR	1	
C1601	EEUFM1E221B	ALU ELEC CAPACITOR	1	
C1602	F1J1E104A081	CHIP CAPACITOR	1	
C1603	F1J1E104A081	CHIP CAPACITOR	1	
C1604	F1J1E104A081	CHIP CAPACITOR	1	
C1605	ECJ2VC1H181J	CHIP CAPACITOR	1	
C1606	ECJ2VB1H103K	CHIP CAPACITOR	1	
C1607	F2A1A681A539	ALU ELEC CAPACITOR	1	
C1608	F1J1E104A081	CHIP CAPACITOR	1	
C1701	EEUFM1E221B	ALU ELEC CAPACITOR	1	
C1702	F1H1C104A042	CHIP CAPACITOR	1	
C1703	F1H1C104A042	CHIP CAPACITOR	1	
C1704	F1H1H1030006	CHIP CAPACITOR	1	
C1705	ECJ1VC1H121J	CHIP CAPACITOR	1	
C1706	F1H1H1030006	CHIP CAPACITOR	1	
C1707	F2A0J681A550	ALU ELEC CAPACITOR	1	
C1800	F2A1E4700048	ALU ELEC CAPACITOR	1	
C3001	F1H1E104A030	CHIP CAPACITOR	1	
C3002	F1H1H1030007	CHIP CAPACITOR	1	
C3003	F1H1E104A030	CHIP CAPACITOR	1	
C3004	F1H1E104A030	CHIP CAPACITOR	1	
C3005	F2A0J471A016	ALU ELEC CAPACITOR	1	
C3006	F2A0J471A016	ALU ELEC CAPACITOR	1	
C3007	F2A1A471A548	ALU ELEC CAPACITOR	1	
C3008	F2A1A1010072	ALU ELEC CAPACITOR	1	
C3009	F2A1A471A548	ALU ELEC CAPACITOR	1	
C3010	F2A1A1010072	ALU ELEC CAPACITOR	1	
C3011	F1H1E104A030	CHIP CAPACITOR	1	
C3012	F2A1A471A548	ALU ELEC CAPACITOR	1	
C3013	F2A1E4700048	ALU ELEC CAPACITOR	1	
C3014	F1H1E104A030	CHIP CAPACITOR	1	
C3015	F1H1E104A030	CHIP CAPACITOR	1	
C3016	F1H1E104A030	CHIP CAPACITOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3017	F1H1E104A030	CHIP CAPACITOR	1	
C3018	F1H1E104A030	CHIP CAPACITOR	1	
C3019	F1H1E104A030	CHIP CAPACITOR	1	
C3020	F1H1E104A030	CHIP CAPACITOR	1	
C3021	F1H1E104A030	CHIP CAPACITOR	1	
C3022	F1H1E104A030	CHIP CAPACITOR	1	
C3025	F1H1E104A030	CHIP CAPACITOR	1	
C3026	F1H0J1050012	CHIP CAPACITOR	1	
C3027	F1H1E104A030	CHIP CAPACITOR	1	
C3028	ECEA1HKA4R7B	ALU ELEC CAPACITOR	1	
C3029	F1H1E104A030	CHIP CAPACITOR	1	
C3030	EEAGA1H4R7B	ALU ELEC CAPACITOR	1	
C3031	F1H0J1050012	CHIP CAPACITOR	1	
C3032	ECEA0JKA101B	ALU ELEC CAPACITOR	1	
C3033	F1H0J1050012	CHIP CAPACITOR	1	
C3034	F1H1H1030007	CHIP CAPACITOR	1	
C3035	ECEA0JKA101B	ALU ELEC CAPACITOR	1	
C3036	F1H1E104A030	CHIP CAPACITOR	1	
C3037	F1H1E104A030	CHIP CAPACITOR	1	
C3038	F1J1E105A080	CHIP CAPACITOR	1	
C3057	F1H1H222A219	CHIP CAPACITOR	1	
C3058	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3059	F1H1H222A219	CHIP CAPACITOR	1	
C3060	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3064	F1H1E104A030	CHIP CAPACITOR	1	
C3065	F1H0J1050012	CHIP CAPACITOR	1	
C3910	F2A1V100A534	ALU ELEC CAPACITOR	1	
C3911	F2A1V100A534	ALU ELEC CAPACITOR	1	
C3914	F2A1H100A236	ALU ELEC CAPACITOR	1	
C3915	F2A1H100A494	ALU ELEC CAPACITOR	1	
C3916	F2A1H1R0A494	ALU ELEC CAPACITOR	1	
C3917	F2A1H1R0A494	ALU ELEC CAPACITOR	1	
C3918	F2A1H100A236	ALU ELEC CAPACITOR	1	
C3919	F2A1H100A494	ALU ELEC CAPACITOR	1	
C3928	F2A1V100A534	ALU ELEC CAPACITOR	1	
C3929	F2A1V100A534	ALU ELEC CAPACITOR	1	
C3935	F2A1C471A701	ALU ELEC CAPACITOR	1	
C3951	F1H1H4700004	CHIP CAPACITOR	1	
C3952	F1H1H4700004	CHIP CAPACITOR	1	
C3953	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3954	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3955	F1H1H1010005	CHIP CAPACITOR	1	
C3956	F1H1H1010005	CHIP CAPACITOR	1	
C3957	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3958	ECJ1VB1H471K	CHIP CAPACITOR	1	
C3959	F1H1H4700004	CHIP CAPACITOR	1	
C3960	F1H1H4700004	CHIP CAPACITOR	1	
C3961	F1H1H1010005	CHIP CAPACITOR	1	
C3962	F1H1H1010005	CHIP CAPACITOR	1	
C4005	F2A1H2200032	ALU ELEC CAPACITOR	1	
C4006	F2A1H100A494	ALU ELEC CAPACITOR	1	
C4008	F2A1E1010067	ALU ELEC CAPACITOR	1	
C4011	F2A1H100A494	ALU ELEC CAPACITOR	1	
C4018	F2A1H4R7A494	ALU ELEC CAPACITOR	1	
	l	I .		

C4021 I	Part No. F2A1C220A637	Part Name & Description	Pcs	Remarks
C4021 I	2711022071001	ALU ELEC CAPACITOR	1	
C4023	F2A1C220A637	ALU ELEC CAPACITOR	1	
-	F2A1H100A236	ALU ELEC CAPACITOR	1	
C4024	F2A1E1010067	ALU ELEC CAPACITOR	1	
-	F2A1H100A236	ALU ELEC CAPACITOR	1	
-	F2A1H1200032	ALU ELEC CAPACITOR	1	
	F2A1H2200032 F2A1H100A494	ALU ELEC CAPACITOR	1	
	F1H1H472A219	CHIP CAPACITOR	1	
	F1H1H472A219	CHIP CAPACITOR	1	
	F2A1C220A637	ALU ELEC CAPACITOR	1	
	F2A1C220A637	ALU ELEC CAPACITOR	1	
	F1H1E104A030	CHIP CAPACITOR	1	
	EEAGA1C100B	ALU ELEC CAPACITOR	1	
	EEAGA1C100B	ALU ELEC CAPACITOR	1	
	F1H1E104A030	CHIP CAPACITOR	1	
	F2A0J471A599	ALU ELEC CAPACITOR	1	
	ECJ2VC1H330J	CHIP CAPACITOR	1	
	ECQV1H104JL3	PLAST FILM CAPACITOR	1	
	ECJ2VC1H330J	CHIP CAPACITOR	1	
	F1H1C104A008	CHIP CAPACITOR	1	
	F2A1A221A206	ALU ELEC CAPACITOR	1	
C4063 I	F2A1E470A205	ALU ELEC CAPACITOR	1	
C4064 I	F2A1E470A205	ALU ELEC CAPACITOR	1	
C4067 I	F2A1E4700048	ALU ELEC CAPACITOR	1	
C4074 I	F1H1E104A030	CHIP CAPACITOR	1	
C4077	F1H1E104A030	CHIP CAPACITOR	1	
C4082	ECJ2VC1H561J	CHIP CAPACITOR	1	
C4083	ECJ2VC1H561J	CHIP CAPACITOR	1	
C4092 I	F2A1C471A701	ALU ELEC CAPACITOR	1	
C4903 I	F2A0J470A599	ALU ELEC CAPACITOR	1	
C4904 I	F1H1E104A030	CHIP CAPACITOR	1	
C6801 I	F1H1H1030006	CHIP CAPACITOR	1	
C6802 I	F1J0J106A014	CHIP CAPACITOR	1	
C6803 I	F1J0J106A014	CHIP CAPACITOR	1	
C7101 I	F1H1H1030006	CHIP CAPACITOR	1	
C7102	F1H1H1030006	CHIP CAPACITOR	1	
C7301	F1H1E104A030	CHIP CAPACITOR	1	
C7302	F1H1E104A030	CHIP CAPACITOR	1	
C7303	F1H1E104A030	CHIP CAPACITOR	1	
C7304	F1H1E104A030	CHIP CAPACITOR	1	
C7305	ECA0JHG221B	ALU ELEC CAPACITOR	1	
C7306	F1J1A105A003	CHIP CAPACITOR	1	
C7309	F1J1A105A003	CHIP CAPACITOR	1	
C7310	ECJ1VB1H152K	CHIP CAPACITOR	1	
C7311	F1H1H1030007	CHIP CAPACITOR	1	
C7312	F1H1H1030007	CHIP CAPACITOR	1	
C7313	F1H1H1030007	CHIP CAPACITOR	1	
C7314	F1H1H472A219	CHIP CAPACITOR	1	
C7315	F1H1H472A219	CHIP CAPACITOR	1	
C7316	F1H1C104A042	CHIP CAPACITOR	1	
C7317	F1H1C104A042	CHIP CAPACITOR	1	
C7318	EEUFC1A470B	ALU ELEC CAPACITOR	1	
C7319	F1H1H330A736	CHIP CAPACITOR	1	
	F1H1H330A736	CHIP CAPACITOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7321	ECEA0JKA101B	ALU ELEC CAPACITOR	1	
C7401	F1J1E105A080	CHIP CAPACITOR	1	
C7408	F1H1E104A030	CHIP CAPACITOR	1	
C7416	F2A0J470A599	ALU ELEC CAPACITOR	1	
C7427	F1H1H222A219	CHIP CAPACITOR	1	
C7444	F2A1C221A701	ALU ELEC CAPACITOR	1	
C7445	F1H0J1050012	CHIP CAPACITOR	1	
C7463	F1H1H1030007	CHIP CAPACITOR	1	
C7464	F1H0J1050012	CHIP CAPACITOR	1	
C7466	EEUFM1A681LB	CAPACITOR	1	
C7469	F1H0J1050012	CHIP CAPACITOR	1	
C7470	F2A1A470A388	ALU ELEC CAPACITOR	1	
C7471	F1H0J1050012	CHIP CAPACITOR	1	
C7472	F1H0J1050012	CHIP CAPACITOR	1	
C7473	F1H0J1050012	CHIP CAPACITOR	1	
C7474	F1H0J1050012	CHIP CAPACITOR	1	
C7475	F1H0J1050012	CHIP CAPACITOR	1	
C7476	F1J1H680A025	CHIP CAPACITOR	1	
C7477	F1H1E104A030	CHIP CAPACITOR	1	
C7478	ECJ2VB1H103K	CHIP CAPACITOR	1	
C7479	F1H1H472A219	CHIP CAPACITOR	1	
C7480	F1H1E104A030	CHIP CAPACITOR	1	
C7481	ECA1EM331B	ALU ELEC CAPACITOR	1	
C7484	ECEA0JKA470B	ALU ELEC CAPACITOR	1	
C7485	F1H0J1050012	CHIP CAPACITOR	1	
C7501	F1J0J475A008	CHIP CAPACITOR	1	
C7502	F1H1H1010005	CHIP CAPACITOR	1	
C7503	F1J0J475A008	CHIP CAPACITOR	1	
C7504	F1H1E104A030	CHIP CAPACITOR	1	
C7505	F1H1E104A030	CHIP CAPACITOR	1	
C7507	F1H1A1050029	CHIP CAPACITOR	1	
C7510	F1H1H222A219	CHIP CAPACITOR	1	
C7511	F1H1H222A219	CHIP CAPACITOR	1	
C7512	F1H1E104A030	CHIP CAPACITOR	1	
C7513	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7515	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7516	ECJ1VC1H180J	CHIP CAPACITOR	1	
C7517	ECJ1VC1H180J	CHIP CAPACITOR	1	
C7518	F1H1H220A725	CHIP CAPACITOR	1	
C7519	ECJ1VC1H180J	CHIP CAPACITOR	1	
C7521	F1H1H1030007	CHIP CAPACITOR	1	
C7522	F1H1H1010005	CHIP CAPACITOR	1	
C7523	F1H1H1030007	CHIP CAPACITOR	1	
C7524	F1H1E104A030	CHIP CAPACITOR	1	
C7526	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7527	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7528	F1H1E104A030	CHIP CAPACITOR	1	
C7531	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7532	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7534	F1H1H1030007	CHIP CAPACITOR	1	
C7535	F1H1E104A030	CHIP CAPACITOR	1	
C7536	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7537	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7538	ECJ1VC1H100D	CHIP CAPACITOR	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7539	F1H1H4700004	CHIP CAPACITOR	1	
C7540	F1H1H1030007	CHIP CAPACITOR	1	
C7541	F1H1H4700004	CHIP CAPACITOR	1	
C7542	F1H1E104A030	CHIP CAPACITOR	1	
C7543	F1H1H4700004	CHIP CAPACITOR	1	
C7544	F1H1E104A030	CHIP CAPACITOR	1	
C7546	F1H0J1050012	CHIP CAPACITOR	1	
C7547	F1H1A105A028	CHIP CAPACITOR	1	
C7548	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7549	ECJ1VC1H100D	CHIP CAPACITOR	1	
C7551	F1H1E104A030	CHIP CAPACITOR	1	
C7552	ECJ1VB1H221K	CHIP CAPACITOR	1	
C7553	ECJ1VB1H221K	CHIP CAPACITOR	1	
C7554	F1H1H1030007	CHIP CAPACITOR	1	
C7555	F1H1H1030007	CHIP CAPACITOR	1	
C7556	ECJ1VC1H102J	CHIP CAPACITOR	1	
C7557		CHIP CAPACITOR	1	
	ECJ1VC1H102J ECJ1VC1H102J		1	
C7558		CHIP CAPACITOR ALU ELEC CAPACITOR	1	
C7566	F2A1V470A533	ALU ELEC CAPACITOR	-	
C7569	F2A1E221A586		1	
C7571	F2A1H2200032	ALU ELEC CAPACITOR	1	
C7573	ECQB1H222KF3	PLAST FILM CAPACITOR	1	
C7574	F2A1A2210063	ALU ELEC CAPACITOR	1	
C7575	F2A1H2200032	ALU ELEC CAPACITOR	1	
C7577	F1H1E104A030	CHIP CAPACITOR	1	
C7578	ECEA0JKA221B	ALU ELEC CAPACITOR	1	
C7579	F2A0J470A012	ALU ELEC CAPACITOR	1	
C7581	F1H1H1030007	CHIP CAPACITOR	1	
C7584	F4D55473A013	ALU ELEC CAPACITOR	1	
C7585	F2A0J101A012	ALU ELEC CAPACITOR	1	
C7591	F1H1A1050029	CHIP CAPACITOR	1	
C7592	F1H1A1050029	CHIP CAPACITOR	1	
C7595	F1H0J1050012	CHIP CAPACITOR	1	
C7596	F1H0J1050012	CHIP CAPACITOR	1	
C7597	F1H0J1050012	CHIP CAPACITOR	1	
C7598	F1H1H1030007	CHIP CAPACITOR	1	
C7599	F1H1H1030007	CHIP CAPACITOR	1	
C7609	F1H1E104A030	CHIP CAPACITOR	1	
C7610	F1H1E104A030	CHIP CAPACITOR	1	
C7611	F1H1H1010005	CHIP CAPACITOR	1	
C7612	F1H1A1050029	CHIP CAPACITOR	1	
C7613	F1H1E104A030	CHIP CAPACITOR	1	
C7617	F1H1H1030007	CHIP CAPACITOR	1	
C7618	F1H0J1050012	CHIP CAPACITOR	1	
C7801	F1H1H1030007	CHIP CAPACITOR	1	
C7802	F1H1H1030007	CHIP CAPACITOR	1	
C7803	F1H1H1030007	CHIP CAPACITOR	1	
C7804	F1H0J1050012	CHIP CAPACITOR	1	
C7805	F1H0J1050012	CHIP CAPACITOR	1	
C7806	F1H0J1050012	CHIP CAPACITOR	1	
C7807	F1H0J1050012	CHIP CAPACITOR	1	
C7808	F1H1H1030007	CHIP CAPACITOR	1	
C7809	F1H1H1030007	CHIP CAPACITOR	1	
C7810	F1H1H1030007	CHIP CAPACITOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7811	F1H1H1030007	CHIP CAPACITOR	1	
C7812	F1H1H1030007	CHIP CAPACITOR	1	
C7813	F1H1H1030007	CHIP CAPACITOR	1	
C7814	F1H1H1030007	CHIP CAPACITOR	1	
C7815	F1H1C224A074	CHIP CAPACITOR	1	
C7816	F1H1H1030007	CHIP CAPACITOR	1	
C7817	F1H1H1030007	CHIP CAPACITOR	1	
C7818	F1H1H1030007	CHIP CAPACITOR	1	
C7819	F1H1H1030007	CHIP CAPACITOR	1	
C7820	EEAGA1C470B	ALU ELEC CAPACITOR	1	
C7821	EEAGA1C470B	ALU ELEC CAPACITOR	1	
C7822	EEAGA1C470B	ALU ELEC CAPACITOR	1	
C7823	F1H1H222A219	CHIP CAPACITOR	1	
C7825	F1H1H330A736	CHIP CAPACITOR	1	
C7826	F1H1H330A736	CHIP CAPACITOR	1	
C7827	F1H1H330A736	CHIP CAPACITOR	1	
C7828	F1H1H330A736	CHIP CAPACITOR	1	
C7834	F1H1H222A219	CHIP CAPACITOR	1	
C7836	F1H1A1050029	CHIP CAPACITOR	1	
C7837	F1H1H104A220	CHIP CAPACITOR	1	
C7838	F1H1H104A220	CHIP CAPACITOR	1	
C7839	EEAGA1H1R0B	ALU ELEC CAPACITOR	1	
C7840	ECJ1VC1H180J	CHIP CAPACITOR	1	
C9001	F1H1H1030006	CHIP CAPACITOR	1	
C9001	F1H1H1030006	CHIP CAPACITOR	1	
C9002	F1H1C104A042	CHIP CAPACITOR	1	
C9003	F1H1H1030006	CHIP CAPACITOR	1	
C9004	F1H1H1030006	CHIP CAPACITOR	1	
C9006	ECJ1VC1H020C	CHIP CAPACITOR	1	
C9007	ECJ2FB1A225K	CHIP CAPACITOR	1	
C9008	F1H1C104A042	CHIP CAPACITOR	1	
C9009	F1H1H1030006	CHIP CAPACITOR	1	
C9010	F1H1H1030006	CHIP CAPACITOR	1	
C9011	F1H1C104A042	CHIP CAPACITOR	1	
C9012	F1H1H8R00006	CHIP CAPACITOR	1	
C9012	F1H1H8R00006	CHIP CAPACITOR	1	
			1	
C9014	F1H1C104A042	CHIP CAPACITOR		
C9038	F1H1C104A042	CHIP CAPACITOR	1	
C9201	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9202	ECJ1VC1H102J	CHIP CAPACITOR	1	
C9203	F1H1C104A042	CHIP CAPACITOR	1	
C9204	ECJ1VF1C334Z	CHIP CAPACITOR	1	
C9205	F1H1H8R00006	CHIP CAPACITOR	1	
C9206	F1H1H1030007	CHIP CAPACITOR	1	
C9207	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9208	F1H1H8R00006	CHIP CAPACITOR	1	
C9210	F1H1H1200004	CHIP CAPACITOR	1	
C9211	F1H1H8R00006	CHIP CAPACITOR	1	
C9212	F1H1H1000013	CHIP CAPACITOR	1	
C9301	F1H1C104A042	CHIP CAPACITOR	1	
C9303	F1H1H1030006	CHIP CAPACITOR	1	
C9304	F1H1E223A029	CHIP CAPACITOR	1	
C9305	F1H1H1030006	CHIP CAPACITOR	1	
C9306	F1H1H1030006	CHIP CAPACITOR	1	

C9307 ECJ1VF1C105Z CHIP CAPACITOR 1 C9308 F1H1C104A008 CHIP CAPACITOR 1 C9309 ECJ1VF1C105Z CHIP CAPACITOR 1 C9310 ECJ1VF1C105Z CHIP CAPACITOR 1 C9311 ECJ1VF1C105Z CHIP CAPACITOR 1 C9311 ECJ1VF1C105Z CHIP CAPACITOR 1 C9312 F1H1C104A008 CHIP CAPACITOR 1 C9313 ECJ1VF1C105Z CHIP CAPACITOR 1 C9313 ECJ1VF1C105Z CHIP CAPACITOR 1 C9501 ECJ1VF1C105Z CHIP CAPACITOR 1 C9502 ECJ1VF1C105Z CHIP CAPACITOR 1 C9503 F1H1H1030006 CHIP CAPACITOR 1 C9504 F1H1H1030006 CHIP CAPACITOR 1 C9505 F1H1C104A042 CHIP CAPACITOR 1 C9506 F1H1C104A042 CHIP CAPACITOR 1 C9507 F1H1C104A042 CHIP CAPACITOR 1 C9508 F1H1C104A042 CHIP CAPACITOR 1 C9509 ECJ1VF1C105Z CHIP CAPACITOR 1 C9509 ECJ1VF1C105Z CHIP CAPACITOR 1 C9510 ECJ1VF1C105Z CHIP CAPACITOR 1 C9511 F1H1H4700004 CHIP CAPACITOR 1 C9512 F1H1H4700004 CHIP CAPACITOR 1 C9513 F1H1H4700004 CHIP CAPACITOR 1 C9501 EEEHA0J101P CHIP CAPACITOR 1 C9502 EEEHA0J101P CHIP CAPACITOR 1 C9503 F1H1C104A042 CHIP CAPACITOR 1 C9504 EEEHA0J101P CHIP CAPACITOR 1 C9505 ECJ1VF1C105Z CHIP CAPACITOR 1 C9511 F1H1H4700004 CHIP CAPACITOR 1 C9512 F1H1H4700004 CHIP CAPACITOR 1 C9506 ECJ1VB1C105K CHIP CAPACITOR 1 C9507 F1HC104A042 CHIP CAPACITOR 1 C9508 ECJ1VB1C105K CHIP CAPACITOR 1 C9509 EEEHA0J101P CHIP CAPACITOR 1 C9509 ECJ1VB1C105K CHIP CAPACITOR 1 C9500 ECJ1VB1C105K CHIP CAPACITOR 1 C9501 ECJ1VB1C105K CHIP CAPACITOR 1 C9502 EEEHA0J101P CHIP CAPACITOR 1 C9503 F1H1C104A042 CHIP CAPACITOR 1 C9504 ECJ1VB1C105K CHIP CAPACITOR 1 C9505 ECJ1VB1C105K CHIP CAPACITOR 1 C9506 ECJ1VB1C105K CHIP CAPACITOR 1 C9507 F1H1C104A042 CHIP CAPACITOR 1 C9508 ECJ1VB1C105K CHIP CAPACITOR 1 C9509 ECJ1VB1C105K CHIP CAPACITOR 1	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9309 ECJ1VF1C105Z CHIP CAPACITOR 1	C9307	ECJ1VF1C105Z		1	
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C9821 F1H1H1030007 CHIP CAPACITOR 1 C9822 ECJ1VB1C105K CHIP CAPACITOR 1 C9823 ECJ1VB1C105K CHIP CAPACITOR 1 C9824 ECJ1VB1C105K CHIP CAPACITOR 1 C9825 ECJ1VB1C105K CHIP CAPACITOR 1 C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9819	F1H1C104A042	CHIP CAPACITOR	1	
C9822 ECJ1VB1C105K CHIP CAPACITOR 1 C9823 ECJ1VB1C105K CHIP CAPACITOR 1 C9824 ECJ1VB1C105K CHIP CAPACITOR 1 C9825 ECJ1VB1C105K CHIP CAPACITOR 1 C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9820	F1H1H1030006	CHIP CAPACITOR	1	
C9823 ECJ1VB1C105K CHIP CAPACITOR 1 C9824 ECJ1VB1C105K CHIP CAPACITOR 1 C9825 ECJ1VB1C105K CHIP CAPACITOR 1 C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9821	F1H1H1030007	CHIP CAPACITOR	1	
C9824 ECJ1VB1C105K CHIP CAPACITOR 1 C9825 ECJ1VB1C105K CHIP CAPACITOR 1 C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9822	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9825 ECJ1VB1C105K CHIP CAPACITOR 1 C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9823	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9826 F1H1H1030006 CHIP CAPACITOR 1 C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9824	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9827 ECJ1VB1C105K CHIP CAPACITOR 1 C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9825	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9828 ECJ1VB1C105K CHIP CAPACITOR 1 C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9826	F1H1H1030006	CHIP CAPACITOR	1	
C9829 ECJ1VB1C105K CHIP CAPACITOR 1 C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9827	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9830 F1H1C104A042 CHIP CAPACITOR 1 C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9828	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9831 ECJ1VB1C105K CHIP CAPACITOR 1	C9829	ECJ1VB1C105K	CHIP CAPACITOR	1	
	C9830	F1H1C104A042	CHIP CAPACITOR	1	
COORD FO MYDAGASK OUR CARACTER	C9831	ECJ1VB1C105K	CHIP CAPACITOR	1	
G9832 EGJ1VB1G105K GHIP GAPACITOR 1	C9832	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9833 ECJ1VB1C105K CHIP CAPACITOR 1	C9833	ECJ1VB1C105K	CHIP CAPACITOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9834	F1H1C104A042	CHIP CAPACITOR	1	
C9835	ECJ1VB1C105K	CHIP CAPACITOR	1	
C9836	F1H1H1030006	CHIP CAPACITOR	1	
C9837	ECJ1VC1H102J	CHIP CAPACITOR	1	
C9838	ECJ1VC1H121J	CHIP CAPACITOR	1	
C9903	ECJ2FF1A106Z	CHIP CAPACITOR	1	
C9904	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9905	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9906	ECJ2FF1A106Z	CHIP CAPACITOR	1	
C9909	ECJ1VC1H070D	CHIP CAPACITOR	1	
C9910	ECJ1VC1H070D	CHIP CAPACITOR	1	
C9911	ECJ1VC1H070D	CHIP CAPACITOR	1	
C9912	ECJ1VC1H070D	CHIP CAPACITOR	1	
C9913	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9914	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9915	ECJ1VF1C105Z	CHIP CAPACITOR	1	
C9916	ECJ1VF1C105Z	CHIP CAPACITOR	1	
	K1KB11B00013	CONNECTOR	1	
	K1KB12B00030	CONNECTOR	1	
D1140	B0EDKT000009	DIODE	1	
D1151	B0HAGM000006	DIODE	1	
D1152	MAZ4100NMF	DIODE	1	
D1155	MAZ73000BC	DIODE	1	
D1156	MA2C165001VT	DIODE	1	
D1157	B0HADV000001	DIODE	1	
	B0JBSG000010		1	
D1270 D1400	B0JCPE000015	DIODE	1	
		DIODE	1	
D1401	B0JCPD000021	DIODE	1	
D1567	MAZ40390HF	DIODE		
D1601	B0JCPD000021	DIODE	1	
D1701	B0JCPE000015	DIODE	1	
D1800	MA2J11100L	CHIP DIODE	1	
D3901	MA2C165001VT MA3Z142D0LG	DIODE	1	
D4002		DIODE		
D4003	MA3Z142D0LG	DIODE	1	
D7101	B3ABA0000595	LED	1	
D7102	B3ACA0000265	LED	1	
D7107	B3AEA0000049	LED	1	
D7108	B3AEA0000049	LED	1	
D7301	MA2C18500E	DIODE	1	
D7401	MA2C165001VT	DIODE	1	
D7464	MAZ41200HF	DIODE	1	
D7466	MA2Q73800L	DIODE	1	
D7502	BOACCK000005	DIODE	1	
D7504	B0AAGM000007	DIODE	1	
D7505	B0BA03600021	DIODE	1	
D7506	BOAADMOOOO3	DIODE	1	
D7507	B0AADM000003	DIODE	1	
D7508	MAZ4300NLF	DIODE	1	
D7509	MAZ4240NMF	DIODE	1	
D7560	MA2C165001VT	DIODE	1	
D7561	MA2C165001VT	DIODE	1	
D7801	MAZ4056NHF	DIODE	1	
D7802	MAZ4056NHF	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7803	MAZ4056NHF	DIODE	1	
D7807	MAZ4300NMF	DIODE	1	
D9201	B0CCAB000039	DIODE	1	
D9301	MA2J72900L	DIODE	1	
D9302	MA2J72900L	DIODE	1	
DP7501	A2BD00000099	DISPLAY	1	
F1101	K5D202BK0005	FUSE	1	Δ
		CERAMIC CAPACITOR	1	
FL6801	F1H0J1050025		-	
IC0701	C1AB00001924	IC	1	
IC1150	C0DACZH00017	IC	1	
IC1200	CODAEMB00003	IC	1	
IC1400	C0DAAJG00007	IC	1	
IC1401	C0DBAKG00005	IC	1	
IC1501	C0EBJ0000143	IC	1	
IC1502	C0CBCBD00018	IC	1	
IC1504	C0CBCYH00003	IC	1	
IC1510	C0CBCDD00006	IC	1	
IC1601	C0DBAKG00007	IC	1	
IC1701	C0DBAKG00005	IC	1	
IC3001	C1AB00002100	IC	1	
IC4009	C0ABBB000125	IC	1	
IC4011	C0DBAHD00013	IC	1	
IC7301	C1AB00002225	IC	1	
IC7461	C0DBAKG00005	IC	1	
IC7462	B1DHDD000022	TRANSISTOR	1	
IC7501	C2CBJG000669	IC	1	
IC7502	C0EBE0000504	IC	1	
IC7503	C3EBJC000055	IC	1	
IC7504	C1ZBZ0002791	IC	1	
IC7505	C0EBJ0000153	IC	1	
IC7506	C0EBE0000457	IC	1	
IC7508	B3RAD0000092	IR RECEIVER	1	
IC7509	C0ABBA000146	IC	1	
IC7801	C1AB00002317	IC	1	
IC9001	C1AB00002208	IC	1	
IC9201	C0JBAZ002272	IC	1	
IC9301	C3ABQG000083	IC	1	
IC9302	C3FBMD000197	IC	1	
IC9303	C0EBE0000127	IC	1	
IC9901	C0ABBB000125	IC	1	
IP1401	K5H3022A0013	FUSE	1	Δ
IP1501	K5H3022A0013	FUSE	1	
IP1560	K5H5012A0010	FUSE	1	
IP1601	K5H3022A0013	FUSE	1	Δ
IP7502	K5H7512A0010	FUSE	1	_
JK3001	K2HA612B0055	CONNECTOR	1	
	K2HA210B0002	CONNECTOR	1	
JK3901	K1FB242B0004	21 PIN SCART	1	
			-	
	K1U407B00006	CONNECTOR	1	
JK7501	K1U415B00001	CUID DESISTOR	1	
K0709	D0YBR0000020	CHIP RESISTOR	1	
K7432	D0YBR0000020	CHIP RESISTOR	1	
K7434	D0YBR0000020	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
K7435	D0YBR0000020	CHIP RESISTOR	1	
K7503	D0YBR0000020	CHIP RESISTOR	1	
K7505	D0YBR0000020	CHIP RESISTOR	1	
K7516	D0YBR0000020	CHIP RESISTOR	1	
L0701	ELJNAR27JFB	CHIP INDUCTOR	1	
L0703	ELJNA3R3JFB	CHIP INDUCTOR	1	
L1120	G0B233D00001	LINE FILTER	1	
L1121	G0B233D00001	LINE FILTER	1	
L1270	G0A100H00025	CHOKE COIL	1	
L1400	G0A100HA0023	CHOKE COIL	1	
L1401	G0A330ZA0041	CHOKE COIL	1	
L1402	G0A150ZA0041	CHOKE COIL	1	
L1501	G0A220GA0026	CHOKE COIL RADIAL	1	
L1503	G0A100HA0023	CHOKE COIL	1	
L1601	G0A150ZA0041	CHOKE COIL	1	
L1701	G0A220ZA0041	CHOKE COIL	1	
L3001	G0C220JA0019	CHOKE COIL AXIAL	1	
L7301	G0C2R2JA0019	CHOKE COIL AXIAL	1	
L7301	G0C2R2JA0019	CHOKE COIL AXIAL	1	
L7401	G0A220GA0026	CHOKE COIL RADIAL	1	
L7401	G0A220GA0026 G0A220GA0026	CHOKE COIL RADIAL	1	
L7460	G0A220GA0026 G0A220GA0026	CHOKE COIL RADIAL	1	
			1	
L7461	G0A330ZA0030	CHOKE COIL BADIAL	1	
L7501	G0C390JA0055	PEAKING COIL RADIAL		
L7801	ELJFA270KFB	CHIP INDUCTOR	1	
L7802	ELJFA100KFB	CHIP INDUCTOR	1	
L7803	ELJNA2R2JFB	CHIP INDUCTOR	1	
L7804	ELJFA2R2KFB	CHIP INDUCTOR	1	
L7806	G1CR33K00011	CHIP INDUCTOR		
L9005	J0JJC0000015	BEAD CORE	1	
L9007	J0JJC0000015 ELJNA2R7JFB	BEAD CORE	1	
L9201		CHIP INDUCTOR CHIP INDUCTOR	1	
L9501	ELJFA1R0MFB		1	
L9502	J0JJC0000015	BEAD CORE CHIP INDUCTOR		
L9503	ELJFA150KFB	CHIP INDUCTOR	1	
L9504	ELJFA100JFB		1	
L9505	ELJFA100JFB	CHIP INDUCTOR	1	
L9801	J0JDC0000002	BEAD CORE	1	
L9802	J0JDC0000002	BEAD CORE	1	
L9803	J0JHC0000075	BEAD CORE	1	
L9804	ELJPA270KFB	CHIP INDUCTOR	1	
L9903	ELJFA330KFB	CHIP INDUCTOR	1	
LB1400	J0JHC0000048	BEAD CORE	1	
LB1503		BEAD CORE	1	
LB1504		BEAD CORE	1	
LB1505		BEAD CORE	1	
LB1506		BEAD CORE	1	
LB1600		BEAD CORE	1	
LB1700		BEAD CORE	1	
LB3001		BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
	J0JBC0000011	BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
LB3007	J0JBC0000011	BEAD CORE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	J0JGC0000020	BEAD CORE	1	Remarks
LB3907		BEAD CORE	1	
		BEAD CORE	1	
	J0JGC0000020		_	
LB3911	J0JGC0000020	BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
LB6801	J0JHC0000032	BEAD CORE	1	
LB6802	J0JHC0000045	BEAD CORE	1	
LB7301	D0YDR0000006	CHIP RESISTOR	1	
LB7302	J0JBC0000011	BEAD CORE	1	
LB7303	D0YDR0000006	CHIP RESISTOR	1	
LB7406	J0JHC0000032	BEAD CORE	1	
LB7408	J0JHC0000032	BEAD CORE	1	
LB7409	J0JHC0000032	BEAD CORE	1	
LB7410	J0JGC0000020	BEAD CORE	1	
LB7412	J0JGC0000020	BEAD CORE	1	
LB7413	J0JGC0000020	BEAD CORE	1	
LB7460	J0JHC0000012	BEAD CORE	1	
LB7501	J0JGC0000020	BEAD CORE	1	
LB7502	J0JCC0000103	BEAD CORE	1	
LB7503	J0JCC0000103	BEAD CORE	1	
	J0JCC0000103	BEAD CORE	1	
LB7505	J0JBC0000011	BEAD CORE	1	
	J0JBC0000011	BEAD CORE	1	
LB7507		BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
	J0JCC0000060	BEAD CORE	1	
	J0JGC0000000	BEAD CORE	1	
	D0YBR0000020	CHIP RESISTOR	1	
	J0JKB0000037	CHOKE COIL	1	
LB7513		BEAD CORE	1	
	J0JGC0000020	BEAD CORE	1	
	D0YBR0000020	CHIP RESISTOR	1	
	D0YBR0000020	CHIP RESISTOR	1	
	D0YBR0000020	CHIP RESISTOR	1	
LB7518	D0YBR0000020	CHIP RESISTOR	1	
LB7801	J0JHC0000032	BEAD CORE	1	
LB7802	J0JHC0000032	BEAD CORE	1	
LB7803	J0JHC0000032	BEAD CORE	1	
P1101	K2AA2H000007	AC INLET	1	A
P1102	K1KB23A00004	CONNECTOR	1	
P1103	K1KA04AA0180	CONNECTOR	1	
P1501	K1KA23A00003	CONNECTOR	1	
P1502	K1KA04AA0180	CONNECTOR	1	
P37001	K1KA06B00181	CONNECTOR	1	
P37002	K2HZ104B0012	CONNECTOR	1	
P6802	K1KB14A00073	CONNECTOR	1	
P6803	K1NA09E00027	CONNECTOR	1	
P7001	K1KA03AA0301	CONNECTOR	1	
P7101	K1KB06B00024	CONNECTOR	1	
P7402	K1KA88A00002	CONNECTOR	1	
P7410	K1KA15AA0288	CONNECTOR	1	
P7410			1	
-	K1KA12AA0288	CONNECTOR		
P7412	K1KA12AA0288	CONNECTOR	1	

P7413	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P7504 K1KA03AA0301 CONNECTOR 1 P7506 K1KA03AA0301 CONNECTOR 1 P7507 K1KA06AA0288 CONNECTOR 1 PK0701 K1KR09AA0007 CONNECTOR 1 PP7001 K1KB15B00013 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q702 2SB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1560 2SD06014RN TRANSISTOR 1 Q1600 B1DDCC00009 TRANSISTOR 1 Q1700 B1DDCC00009 TRANSISTOR 1 Q1700 B1DDCC00009 TRANSISTOR 1 Q3911 2SD132800L CHIP TRANSISTOR 1 Q3919 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD13280AL TRANSISTOR 1 Q400			-	-	
P7506 K1KA03AA0301 CONNECTOR 1 P7507 K1KA06AA0288 CONNECTOR 1 PK0701 K1KA06AA0288 CONNECTOR 1 PF0701 K1KA04BA0207 CONNECTOR 1 PP7801 K1KB15B00013 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q702 2SB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1500 B1DHDD000022 TRANSISTOR 1 Q1500 B1DHCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1	_			1	
P7507 K1KA06AA0288 CONNECTOR 1 PK0701 K1KM09AA0007 CONNECTOR 1 PP0701 K1KA04BA0213 CONNECTOR 1 PP7801 K1KB15B00013 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1200 B3PBA0000023 PHOTO COUPLER 1 Q1200 B3PBA0000023 PHOTO COUPLER 1 Q1200 B1DHED000008 TRANSISTOR 1 Q1400 B1DHED0000022 TRANSISTOR 1 Q1560 2SD0601ARN TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4008 2SD1819ARL TRANSISTOR 1 <tr< td=""><td></td><td></td><td></td><td>_</td><td></td></tr<>				_	
PK0701 K1MR09AA0007 CONNECTOR 1 PP0701 K1KA04BA0213 CONNECTOR 1 PP7801 K1KB15B00031 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q0702 2SB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1560 2SD0601ARN TRANSISTOR 1 Q1600 B1DHDD000022 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1				_	
PP0701 K1KA04BA0213 CONNECTOR 1 PP7801 K1KB15B00013 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q0702 2SB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1560 2SD0601ARN TRANSISTOR 1 Q1600 B1DHDC0000022 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q3918 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4008 2SD1819ARL TRANSISTOR 1 Q4009 2SD1819ARL TRANSISTOR 1				_	
PP7801 K1KB15B00013 CONNECTOR 1 PP7802 K1KB12B00030 CONNECTOR 1 Q0702 2SB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1500 B1DHDD000022 TRANSISTOR 1 Q1500 B1DHDD000022 TRANSISTOR 1 Q1500 B1DHC0000099 TRANSISTOR 1 Q1700 B1DDCC0000099 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q3918 2SD132800L CHIP TRANSISTOR 1 Q4006 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4008 2SD1819ARL TRANSISTOR 1 Q4009 2SD1819ARL TRANSISTOR 1 <trr< td=""><td></td><td></td><td></td><td>_</td><td></td></trr<>				_	
PP7802 K1KB12B00030 CONNECTOR				_	
Q0702 ZSB0709ARL TRANSISTOR 1 Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1560 ZSD0601ARN TRANSISTOR 1 Q1600 B1DHDD000022 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q3918 2SD132800L CHIP TRANSISTOR 1 Q4006 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4008 2SD1819ARL TRANSISTOR 1 Q4009 2SD1819ARL TRANSISTOR 1 Q4009 2SD1819ARL TRANSISTOR 1 Q7101 2SD0601ARN TRANSISTOR 1 Q7102 2SD0601ARN TRANSISTOR 1				_	
Q1200 B3PBA0000237 PHOTO COUPLER 1 Q1270 B1DHED000008 TRANSISTOR 1 Q1400 B1DHDD000022 TRANSISTOR 1 Q1560 2SD0601ARN TRANSISTOR 1 Q1560 B1DHDD000022 TRANSISTOR 1 Q1700 B1DDCC000009 TRANSISTOR 1 Q3916 2SD132800L CHIP TRANSISTOR 1 Q3917 2SD132800L CHIP TRANSISTOR 1 Q3918 2SD132800L CHIP TRANSISTOR 1 Q4006 2SD132800L CHIP TRANSISTOR 1 Q4007 2SD132800L CHIP TRANSISTOR 1 Q4008 2SD1819ARL TRANSISTOR 1 Q4009 2SD1819ARL TRANSISTOR 1 Q4000 2SD1819ARL TRANSISTOR 1 Q7101 2SD0601ARN TRANSISTOR 1 Q7102 2SD0601ARN TRANSISTOR 1 Q7104 2SD0601ARN TRANSISTOR 1				_	
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Q7804 2SB0709ARL TRANSISTOR 1 Q7805 2SD132800L CHIP TRANSISTOR 1 Q9201 2SB0709ARL TRANSISTOR 1 QR1301 UNR221300L TRANSISTOR 1 QR1302 UNR221300L TRANSISTOR 1 QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	Q7802	B1AAGD000016	TRANSISTOR	1	
Q7805 2SD132800L CHIP TRANSISTOR 1 Q9201 2SB0709ARL TRANSISTOR 1 QR1301 UNR221300L TRANSISTOR 1 QR1302 UNR221300L TRANSISTOR 1 QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	Q7803	B1AAGD000016	TRANSISTOR	1	
Q9201 2SB0709ARL TRANSISTOR 1 QR1301 UNR221300L TRANSISTOR 1 QR1302 UNR221300L TRANSISTOR 1 QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	Q7804	2SB0709ARL	TRANSISTOR	1	
QR1301 UNR221300L TRANSISTOR 1 QR1302 UNR221300L TRANSISTOR 1 QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	Q7805	2SD132800L	CHIP TRANSISTOR	1	
QR1302 UNR221300L TRANSISTOR 1 QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	Q9201	2SB0709ARL	TRANSISTOR	1	
QR1303 UNR221300L TRANSISTOR 1 QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	QR1301	UNR221300L	TRANSISTOR	1	
QR1304 UNR221300L TRANSISTOR 1 QR1800 UNR211300L TRANSISTOR 1	QR1302	UNR221300L	TRANSISTOR	1	
QR1800 UNR211300L TRANSISTOR 1	QR1303	UNR221300L	TRANSISTOR	1	
	QR1304	UNR221300L	TRANSISTOR	1	
QR1801 UNR221300L TRANSISTOR 1	QR1800	UNR211300L	TRANSISTOR	1	
· · · · · · · · · · · · · · · · · ·	QR1801	UNR221300L	TRANSISTOR	1	
QR3910 UNR521300L TRANSISTOR 1	QR3910	UNR521300L	TRANSISTOR	1	
QR4060 UNR511100L TRANSISTOR 1	QR4060	UNR511100L	TRANSISTOR	1	
QR7401 UNR521300L TRANSISTOR 1	QR7401	UNR521300L	TRANSISTOR	1	
QR7410 UNR511300L TRANSISTOR 1	QR7410	UNR511300L	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR7411	UNR521100L	TRANSISTOR	1	
QR7412	UNR511100L	TRANSISTOR	1	
QR7415	UNR521100L	TRANSISTOR	1	
QR7460	UNR521300L	TRANSISTOR	1	
QR7461	UNR521300L	TRANSISTOR	1	
QR7503	UNR521400L	TRANSISTOR	1	
QR7505	UNR521400L	TRANSISTOR	1	
QR7506	UNR521200L	TRANSISTOR	1	
QR7507	UNR521000L	TRANSISTOR	1	
QR7508	UNR511100L	TRANSISTOR	1	
QR7801	UNR521100L	TRANSISTOR	1	
QR7802	UNR521100L	TRANSISTOR	1	
QR7803	UNR511300L	TRANSISTOR	1	
QR7804	UNR511300L	TRANSISTOR	1	
QR9302	UNR521100L	TRANSISTOR	1	
R0701	D0YBR0000020	CHIP RESISTOR	1	
R0702	D0GB104JA057	CHIP RESISTOR	1	
R0703	D0GB102JA057	CHIP RESISTOR	1	
R0704	ERJ6GEYJ105V	CHIP RESISTOR	1	
R0705	ERJ6GEYJ392V	CHIP RESISTOR	1	
R0707	D0GB393JA057	CHIP RESISTOR	1	
R0708	D0GB223JA057	CHIP RESISTOR	1	
R0711	D0GB510JA057	CHIP RESISTOR	1	
R0715	D0GB223JA057	CHIP RESISTOR	1	
R0719	D0GB472JA057	CHIP RESISTOR	1	
R0725	ERJ6GEYJ101Z	CHIP RESISTOR	1	
R0726	D0GB332JA057	CHIP RESISTOR	1	
R0728	D0YBR0000020	CHIP RESISTOR	1	
R0729	D0GB103JA057	CHIP RESISTOR	1	
R0738	D0YBR0000020	CHIP RESISTOR	1	
R0740	D0GB471JA057	CHIP RESISTOR	1	
R0741	D0GB221JA057	CHIP RESISTOR	1	
R0741	ERJ6GEYJ471V	CHIP RESISTOR	1	
R0742	ERJ6GEYJ820V	CHIP RESISTOR	1	
R0747	D0GB271JA057	CHIP RESISTOR	1	
R0748	D0GB271JA057	CHIP RESISTOR	1	
			1	
R1150 R1151	ERJ6GEYJ180V	CHIP RESISTOR	1	
	ERJ6GEYJ682V ERJ6GEYJ103V	CHIP RESISTOR CHIP RESISTOR	1	
R1152	ERJ6GEYJ180V	CHIP RESISTOR	1	
R1153	ERJ6GEYG912V	CHIP RESISTOR	1	
R1154			1	
R1155	ERJ6GEYG471V ERJ6GEYG163V	CHIP RESISTOR	1	
R1156		CHIP RESISTOR		
R1157	ERJ6GEYG511V	CHIP RESISTOR	1	
R1158	ERX2SJR22E	METAL RESISTOR	1	
R1200	ERJ6GEYG122V	CHIP RESISTOR	1	
R1201	ERJ6GEYG822V	CHIP RESISTOR	1	
R1205	ERJ6GEYJ224V	CHIP RESISTOR	1	
R1206	ERJ6GEYG242V	CHIP RESISTOR	1	
R1207	ERJ6GEYJ103V	CHIP RESISTOR	1	
R1208	ERJ6GEYJ222V	CHIP RESISTOR	1	
R1209	ERJ6GEYJ102V	CHIP RESISTOR	1	
R1210	ERJ6GEYJ102V	CHIP RESISTOR	1	
R1270	ERJ6GEYJ472V	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1271	ERJ6GEYJ472V	CHIP RESISTOR	1	
R1311	ERJ6GEYJ472V	CHIP RESISTOR	1	
R1401	ERJ6GEYJ104V	CHIP RESISTOR	1	
R1402	ERJ6RBD821V	CHIP RESISTOR	1	
R1404	ERJ6RBD102V	CHIP RESISTOR	1	
R1405	ERJ6GEYJ513V	CHIP RESISTOR	1	
R1406	D1BFR0270001	RESISTOR ARRAY	1	
R1407	ERJ6RBD272V	CHIP RESISTOR	1	
R1409	ERJ6RBD472V	CHIP RESISTOR	1	
R1410	ERJ6RBD151V	CHIP RESISTOR	1	
R1411	ERJ6RBD123V	CHIP RESISTOR	1	
R1503	D0GB332JA057	CHIP RESISTOR	1	
R1505	ERDS2TJ271T	CARBON RESISTOR	1	
R1506	ERDS2TJ271T	CARBON RESISTOR	1	
R1512	ERDS2TJ271T	CARBON RESISTOR	1	
R1513	ERDS2TJ271T	CARBON RESISTOR	1	
R1518	ERJ6GEYJ103V	CHIP RESISTOR	1	
R1520	D0GB822JA057	CHIP RESISTOR	1	
R1562	ERDS2TJ331T	CARBON RESISTOR	1	
R1570	ERJ3RBD152V	CHIP RESISTOR	1	
R1571	ERJ3RBD153V	CHIP RESISTOR	1	
R1572	ERJ3RBD103V	CHIP RESISTOR	1	
R1573	ERDS2TJ271T	CARBON RESISTOR	1	
R1574	D0GB102JA057	CHIP RESISTOR	1	
R1601	D1BFR0150001	RESISTOR ARRAY	1	
R1602	ERJ6GEYJ513V	CHIP RESISTOR	1	
R1603	ERJ6RBD242V	CHIP RESISTOR	1	
R1604	ERJ6RBD153V	CHIP RESISTOR	1	
R1605	ERJ6RBD272V	CHIP RESISTOR	1	
R1701	D1BFR0270001	RESISTOR ARRAY	1	
R1702	D0GB333JA057	CHIP RESISTOR	1	
R1703	D0YBR0000020	CHIP RESISTOR	1	
R1704	ERJ3RBD103V	CHIP RESISTOR	1	
R1705	ERJ3RBD472V	CHIP RESISTOR	1	
R1800	ERJ6GEYJ471V	CHIP RESISTOR	1	
R1801	ERJ6GEYJ104V	CHIP RESISTOR	1	
R1802	ERJ6GEYJ472V	CHIP RESISTOR	1	
R1803	ERJ6GEYJ103V	CHIP RESISTOR	1	
R3001	D0YBR0000020	CHIP RESISTOR	1	
R3003	D0YBR0000020	CHIP RESISTOR	1	
R3004	D0YBR0000020	CHIP RESISTOR	1	
R3005	D0YBR0000020	CHIP RESISTOR	1	
R3006	D0GB822JA057	CHIP RESISTOR	1	
R3007	D0GB330JA057	CHIP RESISTOR	1	
R3054	ERJ3RED750V	CHIP RESISTOR	1	
R3055	ERJ3RED750V	CHIP RESISTOR	1	
R3056	ERJ3RED750V	CHIP RESISTOR	1	
R3057	ERJ3RED750V	CHIP RESISTOR	1	
R3058	ERJ3RED750V	CHIP RESISTOR	1	
R3059	ERJ3RED750V	CHIP RESISTOR	1	
R3075	D0YBR0000020	CHIP RESISTOR	1	
R3901	ERJ3RED750V	CHIP RESISTOR	1	
R3902	ERJ3RED750V	CHIP RESISTOR	1	
R3903	ERJ3RED750V	CHIP RESISTOR	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3910	D0YBR0000020	CHIP RESISTOR	1	
R3911	D0YBR0000020	CHIP RESISTOR	1	
R3912	D0GB103JA057	CHIP RESISTOR	1	
R3913	D0GB103JA057	CHIP RESISTOR	1	
R3914	D0GB471JA057	CHIP RESISTOR	1	
R3918	D0GB471JA057	CHIP RESISTOR	1	
R3919	ERJ3RED750V	CHIP RESISTOR	1	
R3920	ERJ3RED750V	CHIP RESISTOR	1	
R3921	ERJ3RED750V	CHIP RESISTOR	1	
R3922	D0GB471JA057	CHIP RESISTOR	1	
R3923	D0GB471JA057	CHIP RESISTOR	1	
R3924	ERDS2TJ121T	CARBON RESISTOR	1	
R3925	ERJ3RED750V	CHIP RESISTOR	1	
R3926	ERJ3RED750V	CHIP RESISTOR	1	
R3927	ERJ3RED750V	CHIP RESISTOR	1	
R3928	ERJ3RED750V	CHIP RESISTOR	1	
R3929	D0GB750JA057	CHIP RESISTOR	1	
R3930	D0GB750JA057	CHIP RESISTOR	1	
R3932	ERJ3RED750V	CHIP RESISTOR	1	
R3934	ERJ3RED750V	CHIP RESISTOR	1	
R3935	ERJ3RED750V	CHIP RESISTOR	1	
R3936	D0GB124JA057	CHIP RESISTOR	1	
R3937	D0GB124JA057	CHIP RESISTOR	1	
R3938	D0GB153JA057	CHIP RESISTOR	1	
R3975	D0GB1333A037	CHIP RESISTOR	1	
R3976	D0GB101JA057	CHIP RESISTOR	1	
R3979	D0YBR0000020	CHIP RESISTOR	1	
R3980	D0YBR0000020	CHIP RESISTOR	1	
R3983	D07BR0000020	CHIP RESISTOR	1	
R3984	D0GB103JA057	CHIP RESISTOR	1	
R3987	D0GB1033A037	CHIP RESISTOR	1	
R3988	D0GB4733A037	CHIP RESISTOR	1	
R3989	D0GB102JA057	CHIP RESISTOR	1	
R3990	D0GB1023A037	CHIP RESISTOR	1	
R3991	D0GB473JA057	CHIP RESISTOR	1	
R3992	D0GB473JA057	CHIP RESISTOR	1	
			1	
R3993	D0GB102JA057	CHIP RESISTOR		
R3994	D0GB473JA057	CHIP RESISTOR	1	
R3998	D0GB154JA057	CHIP RESISTOR	1	
R3999	D0GB154JA057	CHIP RESISTOR	1	
R4006	D0GB823JA057	CHIP RESISTOR	1	
R4007	D0GB823JA057	CHIP RESISTOR	1	
R4008	D0GB823JA057	CHIP RESISTOR	1	
R4009	D0GB473JA057	CHIP RESISTOR	1	
R4012	D0GB473JA057	CHIP RESISTOR	1	
R4013	D0GB823JA057	CHIP RESISTOR	1	
R4016	D0GB225JA057	CHIP RESISTOR	1	
R4046	D0HB752ZA002	CHIP RESISTOR	1	
R4047	D0HB752ZA002	CHIP RESISTOR	1	
R4055	D0HB123ZA002	METAL FILM RESISTOR	1	
R4057	D0HB123ZA002	METAL FILM RESISTOR	1	
R4059	D0YBR0000020	CHIP RESISTOR	1	
R4066	D0HB103ZA002	METAL FILM RESISTOR	1	
R4067	D0HB103ZA002	METAL FILM RESISTOR	1	

R4071 DOGB473JA057 CHIP RESISTOR 1 R4074 DOGB473JA057 CHIP RESISTOR 1 R4076 DOGB32JA057 CHIP RESISTOR 1 R4077 DOGB010JA057 CHIP RESISTOR 1 R4078 DOGB272JA057 CHIP RESISTOR 1 R4079 DOGB272JA057 CHIP RESISTOR 1 R4080 DOGB010JA057 CHIP RESISTOR 1 R4081 DOGB22JA057 CHIP RESISTOR 1 R4089 DOGB272JA057 CHIP RESISTOR 1 R4089 DOGB22JA057 CHIP RESISTOR 1 R4093 DOGB12JA057 CHIP RESISTOR 1 R4102 DOGB103JA057 CHIP RESISTOR 1 R4103 DOGB103JA057 CHIP RESISTOR 1 R4103 DOGB103JA057 CHIP RESISTOR 1 R4104 DOGB423JA057 CHIP RESISTOR 1 R4105 DOGB10JA057 CHIP RESISTOR 1 R6801 DOGB10JA057 CHIP RESISTOR	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4074 D0GB473JA057 CHIP RESISTOR 1 R4076 D0GB821JA057 CHIP RESISTOR 1 R4077 D0GB272JA057 CHIP RESISTOR 1 R4078 D0GB272JA057 CHIP RESISTOR 1 R4079 D0GB272JA057 CHIP RESISTOR 1 R4080 D0GB101JA057 CHIP RESISTOR 1 R4081 D0GB272JA057 CHIP RESISTOR 1 R4088 D0GB272JA057 CHIP RESISTOR 1 R4089 D0GB272JA057 CHIP RESISTOR 1 R4090 D0GB21JA057 CHIP RESISTOR 1 R4093 D0GB21JA057 CHIP RESISTOR 1 R4103 D0YBR0000020 CHIP RESISTOR 1 R4103 D0GB403JA057 CHIP RESISTOR 1 R4104 D0GB4000020 CHIP RESISTOR 1 R4105 D0GB22JA057 CHIP RESISTOR 1 R4104 D0GB22JA057 CHIP RESISTOR 1 R6801 D0GB22JA057 CHIP RESISTOR			•		
R4076 D0GB821JA057 CHIP RESISTOR 1 R4077 D0GB101JA057 CHIP RESISTOR 1 R4078 D0GB272JA057 CHIP RESISTOR 1 R4080 D0GB272JA057 CHIP RESISTOR 1 R4080 D0GB101JA057 CHIP RESISTOR 1 R4081 D0GB272JA057 CHIP RESISTOR 1 R4081 D0GB272JA057 CHIP RESISTOR 1 R4082 D0GB272JA057 CHIP RESISTOR 1 R4083 D0GB272JA057 CHIP RESISTOR 1 R4089 D0GB272JA057 CHIP RESISTOR 1 R4090 D0GB121JA057 CHIP RESISTOR 1 R4090 D0GB121JA057 CHIP RESISTOR 1 R4093 D0GB121JA057 CHIP RESISTOR 1 R4102 D0GB12JA057 CHIP RESISTOR 1 R4103 D0YBR0000020 CHIP RESISTOR 1 R4104 D0GB473JA057 CHIP RESISTOR 1 R4105 D0GB223JA057 CHIP RESISTOR 1 R4106 D0GB223JA057 CHIP RESISTOR 1 R4107 D0GB103JA057 CHIP RESISTOR 1 R4108 D0GB223JA057 CHIP RESISTOR 1 R4109 D0GB223JA057 CHIP RESISTOR 1 R6801 D0GB223JA057 CHIP RESISTOR 1 R6802 D0GB220JA057 CHIP RESISTOR 1 R6803 D0GB220JA057 CHIP RESISTOR 1 R6804 D0GB223JA057 CHIP RESISTOR 1 R6805 D0GB223JA057 CHIP RESISTOR 1 R6806 D0GB223JA057 CHIP RESISTOR 1 R6807 D0GB223JA057 CHIP RESISTOR 1 R6808 D0GB220JA057 CHIP RESISTOR 1 R6809 D0GB22JA057 CHIP RESISTOR 1 R6801 D0GB103JA057 CHIP RESISTOR 1 R7101 D0GB103JA057 CHIP RESISTOR 1 R7102 D0GB103JA057 CHIP RESISTOR 1 R7103 ERJ6GEYJ201V CHIP RESISTOR 1 R7104 ERJ6GEYJ201V CHIP RESISTOR 1 R7105 ERJ6GEYJ201V CHIP RESISTOR 1 R7106 ERJ6GEYJ201V CHIP RESISTOR 1 R7107 D0GB473JA057 CHIP RESISTOR 1 R7108 D0GB473JA057 CHIP RESISTOR 1 R7109 D0GB473JA057 CHIP RESISTOR 1 R7109 D0GB473JA057 CHIP RESISTOR 1 R7100 D0GB473JA057 CHIP RESISTOR 1 R7101 D0GB473JA057 CHIP RESISTOR 1 R7102 D0GB473JA057 CHIP RESISTOR 1 R7103 D0GB221JA057 CHIP RESISTOR 1 R7104 D0GB473JA057 CHIP RESISTOR 1 R7105 D0GB221JA057 CHIP RESISTOR 1 R7106 D0GB473JA057 CHIP RESISTOR 1 R7107 D0GB101JA057 CHIP RESISTOR 1 R7108 D0GB221JA057 CHIP RESISTOR 1 R7309 D0GB221JA057 CHIP RESISTOR 1 R7301 D0GB103JA057 CHIP RESISTOR 1 R7302 D0GB221JA057 CHIP RESISTOR 1 R7303 D0GB221JA057 CHIP RESISTOR 1 R7304 D0GB22JA057 CHIP RESISTOR 1 R7305 D0GB22JA057 CHIP RESISTOR 1 R7306 D0GB22JA057 CHIP RESISTOR 1 R7307 D0GB22JA057 CHIP RESISTOR 1 R7308 D0GB22JA057 CHIP				1	
R4077 DOGB101JA057 CHIP RESISTOR 1 R4078 DOGB272JA057 CHIP RESISTOR 1 R4079 DOGB272JA057 CHIP RESISTOR 1 R4080 DOGB101JA057 CHIP RESISTOR 1 R4081 DOGB272JA057 CHIP RESISTOR 1 R4088 DOGB272JA057 CHIP RESISTOR 1 R4093 DOGB121JA057 CHIP RESISTOR 1 R4090 DOGB121JA057 CHIP RESISTOR 1 R4102 DOGB103JA057 CHIP RESISTOR 1 R4103 DOYBR0000020 CHIP RESISTOR 1 R4104 DOGB43JA057 CHIP RESISTOR 1 R4105 DOGB223JA057 CHIP RESISTOR 1 R4105 DOGB223JA057 CHIP RESISTOR 1 R6801 DOGB223JA057 CHIP RESISTOR 1 R6802 DOGB223JA057 CHIP RESISTOR 1 R6803 DOGB123JA057 CHIP RESISTOR 1 R6804 DOGB223JA057 CHIP RESISTOR					
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R7303 D0GB221JA057 CHIP RESISTOR 1 R7305 D0GB221JA057 CHIP RESISTOR 1 R7306 D0GB103JA057 CHIP RESISTOR 1 R7307 D0GB101JA057 CHIP RESISTOR 1 R7308 D0GB101JA057 CHIP RESISTOR 1 R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR <td>R7301</td> <td>D0YBR0000020</td> <td>CHIP RESISTOR</td> <td></td> <td></td>	R7301	D0YBR0000020	CHIP RESISTOR		
R7305 D0GB221JA057 CHIP RESISTOR 1 R7306 D0GB103JA057 CHIP RESISTOR 1 R7307 D0GB101JA057 CHIP RESISTOR 1 R7308 D0GB101JA057 CHIP RESISTOR 1 R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7302	D0GB221JA057			
R7306 D0GB103JA057 CHIP RESISTOR 1 R7307 D0GB101JA057 CHIP RESISTOR 1 R7308 D0GB101JA057 CHIP RESISTOR 1 R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7303	D0GB221JA057	CHIP RESISTOR	1	
R7307 D0GB101JA057 CHIP RESISTOR 1 R7308 D0GB101JA057 CHIP RESISTOR 1 R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7305	D0GB221JA057	CHIP RESISTOR	1	
R7308 D0GB101JA057 CHIP RESISTOR 1 R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7306	D0GB103JA057	CHIP RESISTOR	1	
R7309 D0GB822JA057 CHIP RESISTOR 1 R7310 D0YBR0000020 CHIP RESISTOR 1 R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7307	D0GB101JA057	CHIP RESISTOR	1	
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R7315 D0GB221JA057 CHIP RESISTOR 1 R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7309	D0GB822JA057	CHIP RESISTOR	1	
R7316 D0GB221JA057 CHIP RESISTOR 1 R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7310	D0YBR0000020	CHIP RESISTOR	1	
R7402 D0GB103JA057 CHIP RESISTOR 1 R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7315	D0GB221JA057	CHIP RESISTOR	1	
R7403 D0GB153JA057 CHIP RESISTOR 1 R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7316	D0GB221JA057	CHIP RESISTOR	1	
R7404 D0GB223JA057 CHIP RESISTOR 1 R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7402	D0GB103JA057	CHIP RESISTOR	1	
R7405 ERDS2TJ181T CARBON RESISTOR 1 R7410 D0YBR0000020 CHIP RESISTOR 1 R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7403	D0GB153JA057	CHIP RESISTOR	1	
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R7421 D0GB101JA057 CHIP RESISTOR 1 R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7405	ERDS2TJ181T	CARBON RESISTOR	1	
R7422 D0GB101JA057 CHIP RESISTOR 1 R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7410	D0YBR0000020	CHIP RESISTOR	1	
R7438 D0GB220JA057 CHIP RESISTOR 1 R7439 D0GB220JA057 CHIP RESISTOR 1	R7421	D0GB101JA057	CHIP RESISTOR	1	
R7439 D0GB220JA057 CHIP RESISTOR 1	R7422	D0GB101JA057	CHIP RESISTOR	1	
	R7438	D0GB220JA057	CHIP RESISTOR	1	
	R7439	D0GB220JA057	CHIP RESISTOR	1	
R7440 D0GB220JA057 CHIP RESISTOR 1	R7440	D0GB220JA057	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7441	D0GB220JA057	CHIP RESISTOR	1	
R7442	D0GB220JA057	CHIP RESISTOR	1	
R7462	ERJ3RBD153V	CHIP RESISTOR	1	
R7463	ERJ3RBD822V	CHIP RESISTOR	1	
R7464	D0YBR0000020	CHIP RESISTOR	1	
R7465	ERJ6GEYJ103V	CHIP RESISTOR	1	
R7466	ERJ6GEYJ513V	CHIP RESISTOR	1	
R7467	D1BFR039A010	RESISTOR ARRAY	1	
R7468	D0GB103JA057	CHIP RESISTOR	1	
R7490	D0YBR0000020	CHIP RESISTOR	1	
R7501	D0GB102JA057	CHIP RESISTOR	1	
R7502	D0GB392JA057	CHIP RESISTOR	1	
R7503	D0GB104JA057	CHIP RESISTOR	1	
R7504	D0GB102JA057	CHIP RESISTOR	1	
R7505	D1BB1502A010	CHIP RESISTOR	1	
R7506	D0GB104JA057	CHIP RESISTOR	1	
R7507	D1BB15010002	CHIP RESISTOR	1	
			1	
R7508	D1BB5601A010	CHIP RESISTOR	-	
R7518	ERJ3RED750V	CHIP RESISTOR	1	
R7519	ERJ3RED750V	CHIP RESISTOR	1	
R7520	ERJ3RED750V	CHIP RESISTOR	1	
R7521	D0GB473JA057	CHIP RESISTOR	1	
R7523	D0GB473JA057	CHIP RESISTOR	1	
R7524	D0GB101JA057	CHIP RESISTOR	1	
R7526	D0GB101JA057	CHIP RESISTOR	1	
R7527	D0GB101JA057	CHIP RESISTOR	1	
R7528	D0GB101JA057	CHIP RESISTOR	1	
R7529	D0GB101JA057	CHIP RESISTOR	1	
R7531	D0GB104JA057	CHIP RESISTOR	1	
R7532	D0GB332JA057	CHIP RESISTOR	1	
R7533	D0YBR0000020	CHIP RESISTOR	1	
R7534	D0GB103JA057	CHIP RESISTOR	1	
R7535	D0GB101JA057	CHIP RESISTOR	1	
R7536	D0GB101JA057	CHIP RESISTOR	1	
R7537	D0GB101JA057	CHIP RESISTOR	1	
R7541	D0GB101JA057	CHIP RESISTOR	1	
R7543	D0GB101JA057	CHIP RESISTOR	1	
R7544	D0GB101JA057	CHIP RESISTOR	1	
R7545	D0GB473JA057	CHIP RESISTOR	1	
R7546	D0GB473JA057	CHIP RESISTOR	1	
R7547	D0GB473JA057	CHIP RESISTOR	1	
R7548	D0GB472JA057	CHIP RESISTOR	1	
R7549	D0GB332JA057	CHIP RESISTOR	1	
R7550	D0GB223JA057	CHIP RESISTOR	1	
R7551	D0GB101JA057	CHIP RESISTOR	1	
R7552	D0GB101JA057	CHIP RESISTOR	1	
R7553	D0GB101JA057	CHIP RESISTOR	1	
R7557	D0GB511JA057	CHIP RESISTOR	1	
R7558	D0GB202JA057	CHIP RESISTOR	1	
R7559	D0GB202JA057	CHIP RESISTOR	1	
R7560	D0GB472JA057	CHIP RESISTOR	1	
R7561	D0GB101JA057	CHIP RESISTOR	1	
R7562	D0GB101JA057	CHIP RESISTOR	1	
R7563	D0GB101JA057	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7564	D0GB101JA057	CHIP RESISTOR	1	
R7565	D0GB101JA057	CHIP RESISTOR	1	
R7566	D0GB101JA057	CHIP RESISTOR	1	
R7568	D0GB101JA057	CHIP RESISTOR	1	
R7570	D0GB392JA057	CHIP RESISTOR	1	
R7571	D0GB101JA057	CHIP RESISTOR	1	
R7572	D0GB101JA057	CHIP RESISTOR	1	
R7575	D0GB101JA057	CHIP RESISTOR	1	
R7576	D0GB102JA057	CHIP RESISTOR	1	
R7577	D0GB103JA057	CHIP RESISTOR	1	
R7578	D0GB103JA057	CHIP RESISTOR	1	
R7579	D0GB223JA057	CHIP RESISTOR	1	
R7582	D0GB104JA057	CHIP RESISTOR	1	
R7583	D0GB472JA057	CHIP RESISTOR	1	
R7584	D0GB473JA057	CHIP RESISTOR	1	
R7585	D0GB4755A057	CHIP RESISTOR	1	
			1	
R7586	D0GB433JA057 D0GB224JA057	CHIP RESISTOR	1	
R7587		CHIP RESISTOR	-	
R7588	D0GB104JA057	CHIP RESISTOR	1	
R7589	D0GB221JA057	CHIP RESISTOR	1	
R7590	D0GB104JA057	CHIP RESISTOR	1	
R7592	D0GB101JA057	CHIP RESISTOR	1	
R7594	D0GB223JA057	CHIP RESISTOR	1	
R7597	D0GB822JA057	CHIP RESISTOR	1	
R7598	D0GB822JA057	CHIP RESISTOR	1	
R7599	D0GB822JA057	CHIP RESISTOR	1	
R7600	D0GB103JA057	CHIP RESISTOR	1	
R7601	D0GB102JA057	CHIP RESISTOR	1	
R7604	D0GB331JA057	CHIP RESISTOR	1	
R7605	D0GB331JA057	CHIP RESISTOR	1	
R7606	D1BB3902A010	CHIP RESISTOR	1	
R7607	D0GB331JA057	CHIP RESISTOR	1	
R7608	D1BB4302A010	CHIP RESISTOR	1	
R7612	D0GB332JA057	CHIP RESISTOR	1	
R7614	D0GB470JA057	CHIP RESISTOR	1	
R7615	ERDS2TJ471T	CARBON RESISTOR	1	
R7617	D0GB473JA057	CHIP RESISTOR	1	
R7618	D0GB473JA057	CHIP RESISTOR	1	
R7619	D0GB103JA057	CHIP RESISTOR	1	
R7620	D0GB473JA057	CHIP RESISTOR	1	
R7621	D0GB104JA057	CHIP RESISTOR	1	
R7622	D0GB153JA057	CHIP RESISTOR	1	
R7623	D0GB181JA057	CHIP RESISTOR	1	
R7624	D0GB223JA057	CHIP RESISTOR	1	
R7625	D0GB183JA057	CHIP RESISTOR	1	
R7628	D0GB223JA057	CHIP RESISTOR	1	
R7632	D0GB682JA057	CHIP RESISTOR	1	
R7634	D0GB682JA057	CHIP RESISTOR	1	
R7636	D0GB682JA057	CHIP RESISTOR	1	
R7638	D0GB682JA057	CHIP RESISTOR	1	
R7639	D0GB272JA057	CHIP RESISTOR	1	
R7640	D0GB272JA057	CHIP RESISTOR	1	
R7641	D0GB473JA057	CHIP RESISTOR	1	
R7642	D0GB562JA057	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7643	D0GB562JA057	CHIP RESISTOR	1	
R7644	D0GB222JA057	CHIP RESISTOR	1	
R7648	ERDS2TJ330T	CARBON RESISTOR	1	
R7649	D0GB101JA057	CHIP RESISTOR	1	
R7660	D0GB103JA057	CHIP RESISTOR	1	
R7662	D0GB103JA057	CHIP RESISTOR	1	
R7663	D0GB821JA057	CHIP RESISTOR	1	
R7664	D0GB303JA057	CHIP RESISTOR	1	
R7665	D0GB753JA057	CHIP RESISTOR	1	
R7666	D0GB101JA057	CHIP RESISTOR	1	
R7667	D0GB101JA057	CHIP RESISTOR	1	
R7668	D0GB101JA057	CHIP RESISTOR	1	
R7669	D0GB472JA057	CHIP RESISTOR	1	
R7669	D0GB472JA057	CHIP RESISTOR	1	
R7670	D0GB101JA057	CHIP RESISTOR	1	
R7671	D0YBR0000020	CHIP RESISTOR	1	
R7699	ERJ3RBD273V	CHIP RESISTOR	1	
R7801	D0GB681JA057	CHIP RESISTOR	1	
R7802	D0GB0013A057	CHIP RESISTOR	1	
R7803	D0GB621JA057	CHIP RESISTOR	1	
	D0GB0813A037	CHIP RESISTOR	1	
R7804			1	
R7805	D0GB102JA057	CHIP RESISTOR	1	
R7806	D0GB271JA057	CHIP RESISTOR		
R7807	D0YBR0000020	CHIP RESISTOR	1	
R7808	D0YBR0000020	CHIP RESISTOR	1	
R7809	D0YBR0000020	CHIP RESISTOR	1	
R7810	D0YBR0000020	CHIP RESISTOR	1	
R7811	D0GB562JA057	CHIP RESISTOR	1	
R7812	D0GB471JA057	CHIP RESISTOR	1	
R7813	D0GB101JA057	CHIP RESISTOR	1	
R7814	D0GB101JA057	CHIP RESISTOR	1	
R7815	D0GB101JA057	CHIP RESISTOR	1	
R7816	D0GB101JA057	CHIP RESISTOR	1	
R7817	D0GB101JA057	CHIP RESISTOR	1	
R7826	D0YBR0000020	CHIP RESISTOR	1	
R7827	D0GB471JA057	CHIP RESISTOR	1	
R7828	D0GB471JA057	CHIP RESISTOR	1	
R7829	D0GB102JA057	CHIP RESISTOR	1	
R7830	D0GB681JA057	CHIP RESISTOR	1	
R7833	D0YBR0000020	CHIP RESISTOR	1	
R7834	D0YBR0000020	CHIP RESISTOR	1	
R9008	D0GB181JA057	CHIP RESISTOR	1	
R9010	D0GB152JA057	CHIP RESISTOR	1	
R9011	D0GB152JA057	CHIP RESISTOR	1	
R9012	D0GB100JA057	CHIP RESISTOR	1	
R9013	D0GB330JA057	CHIP RESISTOR	1	
R9014	D0GB330JA057	CHIP RESISTOR	1	
R9015	D0YBR0000020	CHIP RESISTOR	1	
R9016	D0YBR0000020	CHIP RESISTOR	1	
R9017	D1BB10020004	CHIP RESISTOR	1	
R9028	D0YBR0000020	CHIP RESISTOR	1	
R9029	D0GB103JA057	CHIP RESISTOR	1	
R9030	D0GB474JA057	CHIP RESISTOR	1	
R9031	D0GB103JA057	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9032	D0GB103JA057	CHIP RESISTOR	1	
R9033	D0GB103JA057	CHIP RESISTOR	1	
R9034	D0GB103JA057	CHIP RESISTOR	1	
R9037	D0YBR0000020	CHIP RESISTOR	1	
R9038	D0YBR0000020	CHIP RESISTOR	1	
R9201	D0GB104JA057	CHIP RESISTOR	1	
R9202	D0GB104JA057	CHIP RESISTOR	1	
R9203	D0YBR0000020	CHIP RESISTOR	1	
R9204	D0GB332JA057	CHIP RESISTOR	1	
R9205	D0GB104JA057	CHIP RESISTOR	1	
R9206	D0GB105JA057	CHIP RESISTOR	1	
R9207	D0GB101JA057	CHIP RESISTOR	1	
R9208	D0GB101JA057	CHIP RESISTOR	1	
R9209	D0GB101JA057	CHIP RESISTOR	1	
R9210	D0GB181JA057	CHIP RESISTOR	1	
R9211	D0GB101JA057	CHIP RESISTOR	1	
R9212	D0GB1013A057	CHIP RESISTOR	1	
R9213	D0GB750JA057	CHIP RESISTOR	1	
R9214	D0GB103JA057	CHIP RESISTOR	1	
R9215	D0GB103JA057	CHIP RESISTOR	1	
R9216	D0GB103JA057	CHIP RESISTOR	1	
R9218	D0GB1033A037	CHIP RESISTOR	1	
R9220	D0GB4723A057	CHIP RESISTOR	1	
			1	
R9221	D0GB750JA057	CHIP RESISTOR	1	
R9223	D0GB103JA057	CHIP RESISTOR		
R9224	D0GB334JA057	CHIP RESISTOR	1	
R9226	D0YBR0000020	CHIP RESISTOR	1	
R9227	D1HG5608A002	RESISTOR ARRAY	1	
R9228	D1HG5608A002	RESISTOR ARRAY	1	
R9229	D1HG5608A002	RESISTOR ARRAY	1	
R9230	D1HG5608A002	RESISTOR ARRAY	1	
R9231	D1HG5608A002		1	
R9232	D1HG5608A002	RESISTOR ARRAY	1	
R9233	D1HG5608A002	RESISTOR ARRAY		
R9234	D1HG5608A002	RESISTOR ARRAY	1	
R9235	D1HG5608A002		1	
R9236	D0GB103JA057	CHIP RESISTOR	1	
R9237	D0YBR0000020	CHIP RESISTOR	1	
R9239	D0GB820JA057	CHIP RESISTOR	1	
R9240	D0GB820JA057	CHIP RESISTOR	1	
R9241	D0GB560JA057	CHIP RESISTOR	1	
R9242	D0GB560JA057	CHIP RESISTOR	1	
R9243	D0GB560JA057	CHIP RESISTOR	1	
R9244	D0GB560JA057	CHIP RESISTOR	1	
R9245	D0GB560JA057	CHIP RESISTOR	1	
R9246	D0GB560JA057	CHIP RESISTOR	1	
R9247	D0GB220JA057	CHIP RESISTOR	1	
R9249	D0GB103JA057	CHIP RESISTOR	1	
R9250	D0GB103JA057	CHIP RESISTOR	1	
R9254	D0GB103JA057	CHIP RESISTOR	1	
R9301	D0GB330JA057	CHIP RESISTOR	1	
R9302	D0GB103JA057	CHIP RESISTOR	1	
R9303	D0GB103JA057	CHIP RESISTOR	1	
R9305	D0GB103JA057	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9306	D0GB472JA057	CHIP RESISTOR	1	
R9307	D0GB103JA057	CHIP RESISTOR	1	
R9308	D0GB103JA057	CHIP RESISTOR	1	
R9309	D0GB472JA057	CHIP RESISTOR	1	
R9310	D0GB103JA057	CHIP RESISTOR	1	
R9311	D0GB103JA057	CHIP RESISTOR	1	
R9312	D0GB103JA057	CHIP RESISTOR	1	
R9313	D0GB103JA057	CHIP RESISTOR	1	
R9314	D0GB103JA057	CHIP RESISTOR	1	
R9315	D0GB103JA057	CHIP RESISTOR	1	
R9316	D0YBR0000020	CHIP RESISTOR	1	
R9317	D0GB103JA057	CHIP RESISTOR	1	
R9318	D0GB103JA057	CHIP RESISTOR	1	
R9319	D0GB103JA057	CHIP RESISTOR	1	
R9320	D0YBR0000020	CHIP RESISTOR	1	
R9322	D0YBR0000020	CHIP RESISTOR	1	
R9501	D1BB10020004	CHIP RESISTOR	1	
R9502	D0YBR0000020	CHIP RESISTOR	1	
R9503	D1BB10020004	CHIP RESISTOR	1	
R9504	D0YBR0000020	CHIP RESISTOR	1	
R9505	D1BB2000A010	CHIP RESISTOR	1	
R9506	D1BB33000002	CHIP RESISTOR	1	
			1	
R9507	D1BB33000002	CHIP RESISTOR		
R9508	D1BB33000002	CHIP RESISTOR	1	
R9509	D1BB33000002	CHIP RESISTOR	1	
R9801	D0GB101JA057	CHIP RESISTOR	1	
R9802	D0GB101JA057	CHIP RESISTOR	1	
R9803	D0GB101JA057	CHIP RESISTOR	1	
R9804	D0GB101JA057	CHIP RESISTOR	1	
R9805	D0GB101JA057	CHIP RESISTOR	1	
R9806	D0GB101JA057	CHIP RESISTOR	1	
R9903	D0GB240JA057	CHIP RESISTOR	1	
R9904	D0GB240JA057	CHIP RESISTOR	1	
R9905	D0GB240JA057	CHIP RESISTOR	1	
R9906	D0GB240JA057	CHIP RESISTOR	1	
R9907	ERJ3RBD103V	CHIP RESISTOR	1	
R9908	ERJ3RBD103V	CHIP RESISTOR	1	
R9909	ERJ3RBD103V	CHIP RESISTOR	1	
R9910	ERJ3RBD103V	CHIP RESISTOR	1	
R9911	ERJ3RED204V	RESISTOR	1	
R9912	ERJ3RED204V	RESISTOR	1	
R9915	ERJ3RED204V	RESISTOR	1	
R9916		RESISTOR	1	
	ERJ3RED204V			
R9917	D0GB103JA057	CHIP RESISTOR	1	
R9918	D0GB103JA057	CHIP RESISTOR	1	
R9919	D0GB471JA057	CHIP RESISTOR	1	
R9920	D0GB471JA057	CHIP RESISTOR	1	
RX6801	D1H82204A024	RESISTOR ARRAY	1	
RX6802	D1H81234A024	RESISTOR ARRAY	1	
S7001	EVQPC105K	TOUCH SWITCH	1	
S7501	EVQPC105K	TOUCH SWITCH	1	
S7502	EVQPC105K	TOUCH SWITCH	1	
S7503	EVQPC105K	TOUCH SWITCH	1	

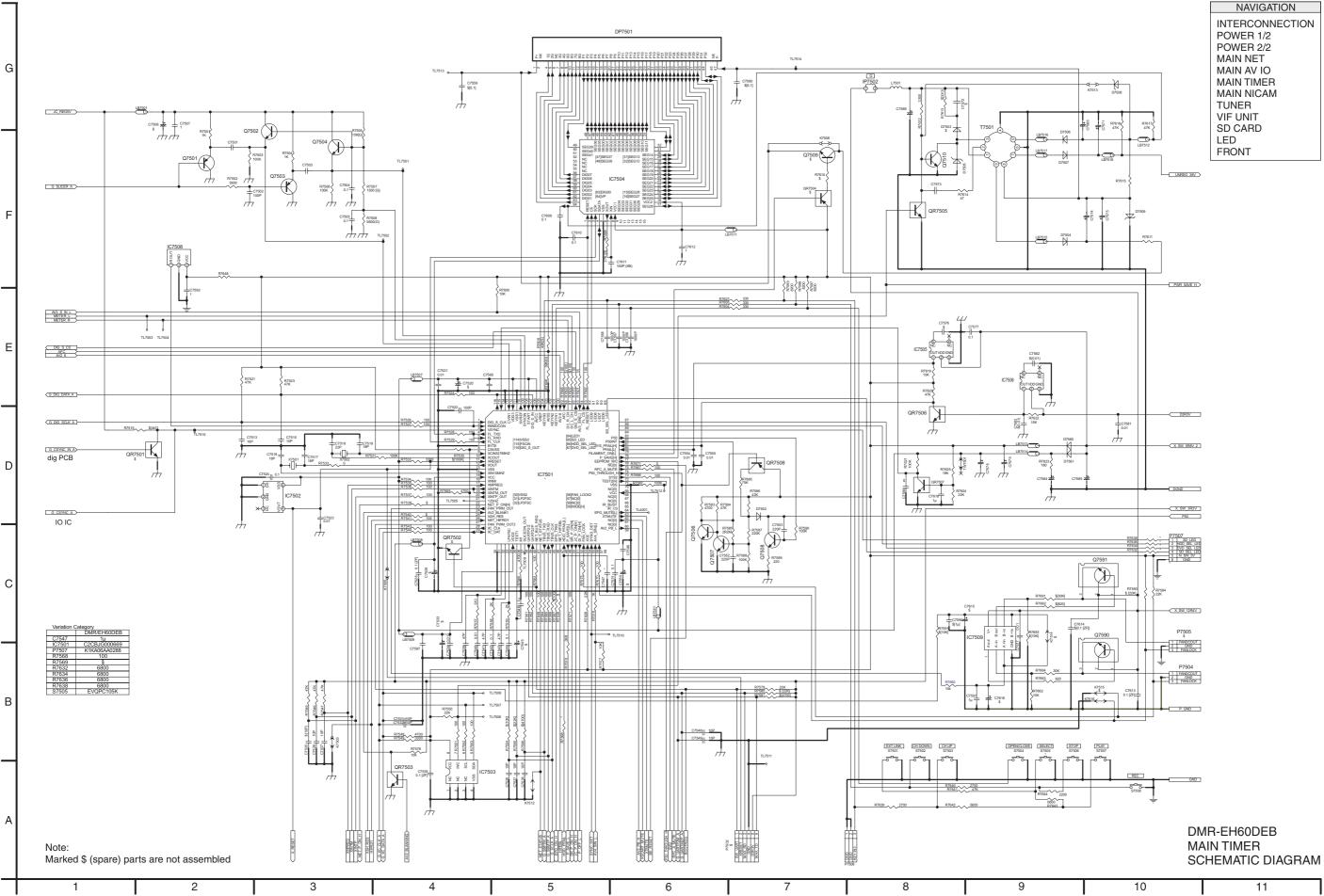
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S7505	EVQPC105K	TOUCH SWITCH	1	
S7506	EVQPC105K	TOUCH SWITCH	1	
S7507	EVQPC105K	TOUCH SWITCH	1	
S7508	EVQPC105K	TOUCH SWITCH	1	
T1150	ETS29AZ2G6AC	TRANSFORMER	1	Δ
T7501	G4D1C0000003	TRANSFORMER	1	Δ.
VA1110	-	SURGE ABSORBER	1	<u> </u>
VR0701		VARIABLE RESISTOR	1	
W1	ERJ8GEY0R00V	CHIP RESISTOR	1	
W10	D0YBR0000020	CHIP RESISTOR	1	
W12	D0YBR0000020	CHIP RESISTOR	1	
W13	D0YDR0000006	CHIP RESISTOR	1	
W13	ERJ8GEY0R00V	CHIP RESISTOR	1	
W14	D0YDR0000006	CHIP RESISTOR	1	
W14	ERJ8GEY0R00V	CHIP RESISTOR	1	
W15	D0YDR0000006	CHIP RESISTOR	1	
W16	D0YDR0000006	CHIP RESISTOR	1	
W16	ERJ8GEY0R00V	CHIP RESISTOR	1	
W17	D0YDR0000006	CHIP RESISTOR	1	
W18	D0YDR0000006	CHIP RESISTOR	1	
W2	ERJ8GEY0R00V	CHIP RESISTOR	1	
W3	ERJ8GEY0R00V	CHIP RESISTOR	1	
W4	D0YDR0000006	CHIP RESISTOR	1	
W400	D0YBR0000020	CHIP RESISTOR	1	
W401	D0YBR0000020	CHIP RESISTOR	1	
W403	D0YBR0000020	CHIP RESISTOR	1	
W404	D0YBR0000020	CHIP RESISTOR	1	
W405	D0YBR0000020	CHIP RESISTOR	1	
W406	D0YBR0000020	CHIP RESISTOR	1	
W407	D0YBR0000020	CHIP RESISTOR	1	
W408	D0YBR0000020	CHIP RESISTOR	1	
W409	D0YBR0000020	CHIP RESISTOR	1	
W410	D0YBR0000020	CHIP RESISTOR	1	
W411	D0YBR0000020	CHIP RESISTOR	1	
W412	D0YBR0000020	CHIP RESISTOR	1	
W413	D0YBR0000020	CHIP RESISTOR	1	
W414	D0YBR0000020	CHIP RESISTOR	1	
W415	D0YBR0000020	CHIP RESISTOR	1	
			1	
W416 W417	D0YBR0000020	CHIP RESISTOR		
		CHIP RESISTOR	1	
W418	D0YBR0000020	CHIP RESISTOR	1	
W419	D0YBR0000020	CHIP RESISTOR	1	
W420	D0YBR0000020	CHIP RESISTOR	1	
W421	D0YBR0000020	CHIP RESISTOR	1	
W5	ERJ8GEY0R00V	CHIP RESISTOR	1	
W6	ERJ8GEY0R00V	CHIP RESISTOR	1	
W7	D0YDR0000006	CHIP RESISTOR	1	
W8	D0YDR0000006	CHIP RESISTOR	1	
W9	ERJ8GEY0R00V	CHIP RESISTOR	1	
X0701	J0B4155A0003	CRYSTAL OSCILLATOR	1	
X0704	VLF1495	FILTER	1	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
X7501	H0D100500018	OSCILLATOR	1	
X7502	H0A327200108	CRYSTAL OCSILLATOR	1	

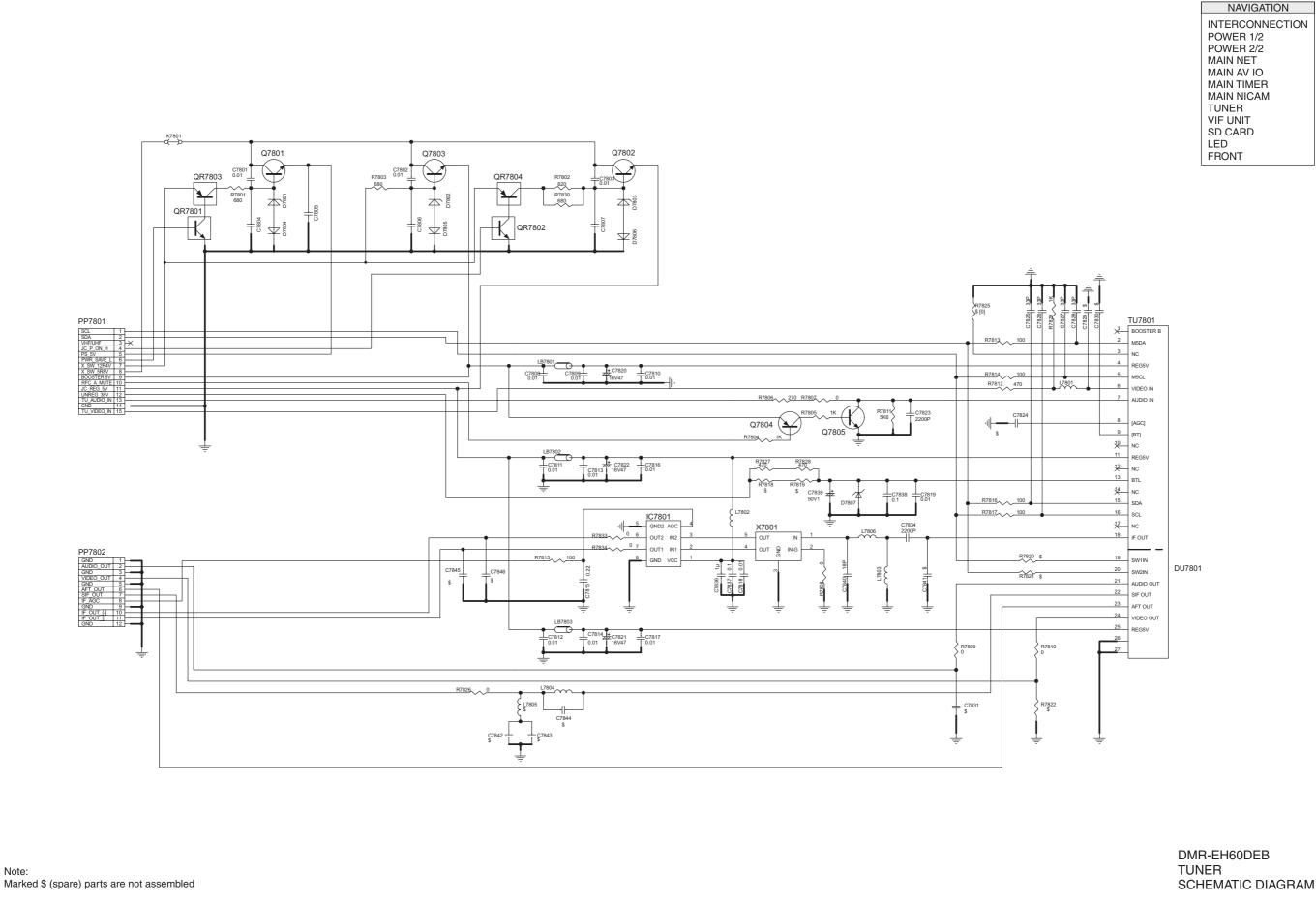
<u>-</u>				
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X7801	J0C3615A0002	SAW FILTER	1	
X9002	H0J270500100	CRYSTAL OSCILLATOR	1	
X9201	H0J270500098	CRYSTAL OSCILLATOR	1	
X9202	H0J327200091	CRYSTAL	1	
ZA0701	VMP4471-1	ANGLE	1	
ZA1103	EYF52BCY	FUSE HOLDER	1	
ZA1104	EYF52BCY	FUSE HOLDER	1	
ZA1105	K9ZZ00001279	EARTH FITTING	1	
ZA1106	K9ZZ00001279	EARTH FITTING	1	
ZA1150	VSC5603	HEAT SINK	1	
ZA1270	VSC5604	HEAT SINK	1	
ZJ3001	K9ZZ00001279	EARTH FITTING	1	
ZJ7401	K9ZZ00001279	EARTH FITTING	1	
ZJ7402	K9ZZ00001279	EARTH FITTING	1	
ZJ7404	K9ZZ00001279	EARTH FITTING	1	
ZJ7420	K9ZZ00001279	EARTH FITTING	1	
ZJ7422	K9ZZ00001279	EARTH FITTING	1	
ZJ7423	K9ZZ00001279	EARTH FITTING	1	
ZJ7424	K9ZZ00001279	EARTH FITTING	1	
ZJ7501	K9ZZ00001279	EARTH FITTING	1	

23.4. SERVICE FIXTURE AND TOOLS

Ref. No.	Part No.	Part Name & Description	PCS	Remarks
	RFKZ0125	Extension FFC	1	Same as E30/HS2/
		(Digital P.C.B		E50/E55/
		DVD-RAM Drive / 40 Pin)		ES10 series
				(SPC)
	RFKZ0126	Extension Cable	1	Same as E30/HS2/
		(Power &		ES10 series
		Digital I/F P.C.B		(SPC)
		DVD-RAM Drive / 4 Pin)		
	RFKZ0216	Extension Cable	1	Same as E50/E55
		(Main P.C.B Power P.C.B. 23 Pin)		series
				(SPC)

24. DIAGRAMS FOR PRINTING WITH A4





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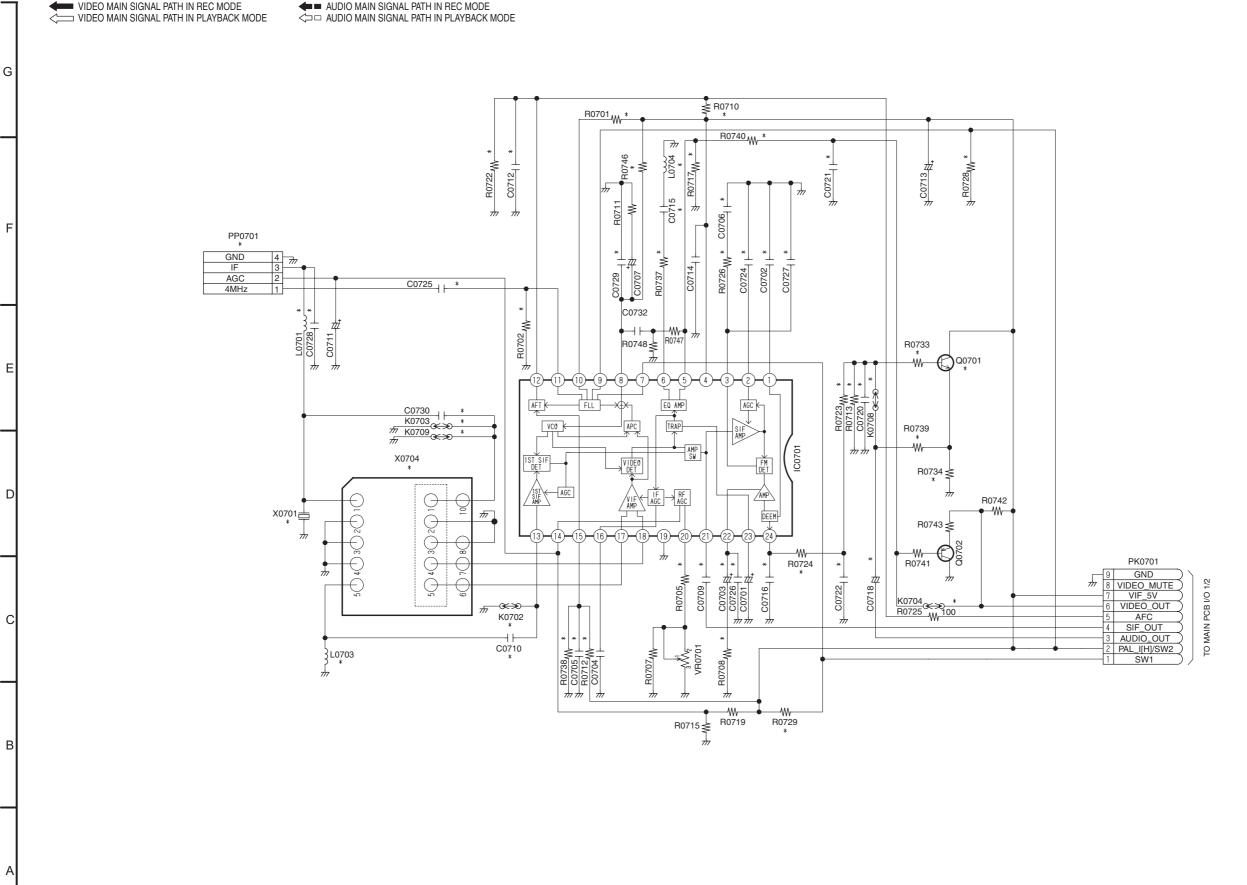
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В

2 3 4 5 6 7 8 9 10



DMR-EH60DEB VIF-UNIT SCHEMATIC DIAGRAM

NAVIGATION

INTERCONNECTION POWER 1/2 POWER 2/2 MAIN NET

MAIN AV IO MAIN TIMER MAIN NICAM

TUNER VIF UNIT SD CARD

LED

FRONT

1

Marked \$ (spare) parts are not assembled

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SCHEMATIC DIAG

DVD / HDD Controls

CHECK

STTL

Displays of hides subtitels.

than 5 seconds.

DVD/VHS Stand-by/on switch Turn the television set on and off. (U) חעח Press to switch the unit from on to stand-by mode (U) (AV) Select the AV input on the television set. or vice versa. In stand-by mode, the unit is still consuming VOLUME a small amount of power. СН DIRECT TV REC CH: Select the channel on the television set. Switching this unit into standby mode does not AV CH VOLUM disconnect it from the mains. VOLUME: Volume control of the television set. HDD DVD SD Press the corresponding button (2) (3) \wedge DIRECT TV REC HDD DVD SD Direct TV record to DVD. to operate the desired element. • СН (5) **(6)** (4) $\overline{\nabla}$ DISPLAY (1) (2) (3) Number buttons - direct input VIDEO Plus+ Launch the disc menu. 7 9 (8) (4) (5) (6) 5: 0 + 5 15: 1) + 3 DISPLAY **(0)** (7) (8) (9) (*) MP3 JPEG 5: 0 + 0 + 5 15: (0) + (1) + (5) Launch the TV GUIDE system. SLOW/SEARCH (0) Smart Wheel: Press up, down, left or right DIRECT NAVIGATOR TITLE VIEW to select the Function in the menu. STOP PALISE PLAY/x1.3 TOP MENU: Main menu of DVD-video. Rotate the wheel to select the parameter. ENTER: Select or save a setting. GUIDE FUNCTION selection menu. ◆III III Still picture or time loop playback. Display the programme information from the TV GUIDE or the Banner. Launch or Exit the MHEG service. SUB MENU (S) Launch DVD sub menus. SUB MENU RETURN (S) Exit a menu. ERASE STATUS Time and detail information appears on the screen. (a) TIME SLIF Select the timeframe to be skipped. PROG STTL INPUT SELECT Switch button of the AV input between AV1, AV2 and AV3 (front) / AV4 and DV. PAGE Panasonic 4 6 1 $\overline{}$ PAGE: Page in the electronic TV Guide. DVD/TV EUR7729KH0 CANCEL CH Cancel a function. CH: Channel select button. (*)VIDEO Plusa Video Plus+ menu Starts playback. PLAY/x1.3 PLAY/ x1.3 SLOW/SEARCH RAM - You can increase the playback speed Search or slow motion playback. ₩ ₩ Hold PLAY▶ during playback. STOP Stops recording, replay or forward / reverse action Skip chapters, titles, or pictures. PAUSE Pause a recording or playback. Record mode button XP, SP, LP, EP RFC MANUAL SKIP Jumps forward 30 seconds. Start the recording. Red Button: Functions in MHEG Service, Edit Profile, TV Guide. TIMER Switch timer on and off. Green Button: Functions in MHEG Service, Edit Profile, TV Guide. EXT LINK CREATE Split the recording into chapters. CHAPTER Record with external recording control. Yellow Button: Functions in MHEG Service, Edit Profile, TV Guide. PROG ERASE Erase a title or a chapter. TIMER RECORDING menu

Audio L/R function: Press and hold STTL for more

(

Blue Button: Functions in MHEG Serice, Edit Profile, TV Guide, Banner.

OPEN/CLOSE Front Panel Button: Open and close the disc tray

SPECIFICATIONS

Power supply: AC220-240 V. 50/60 Hz

33 W +/-1.3W Power consumption:

Power Save mode: approx. 3W+/-0,4W

Dimensions and Mass:

430 (W)×337 (D)×63 (H) mm

(excluding protrusions) / 4.5kg

Operating temperature range: +5 to +40°C

Operating humidity range: 10 to 80% RH (no condensation)

Pickup:

Signal system:

Laser power CLASS2/CLASS1 662nm / 795nm Wave length

No hazardous radiation is emitted

with the safety protection

PAL625/50, NTSC525/60

Recording system: MPEG2 (Hvbrid VBR)

Audio: Dolby Digital 2CH

DVD Region number: Region No.2

Internal HARD DISC DRIVE: 160GB / max. 284h (EP mode)

DVD Recording, Playable discs:

12cm 4.7GB / 9.4GB / 8cm 2.8GB DVD-RAM:

12cm 4.7GB / 8cm 1.4GB DVD-R: 12cm 4.7GB DVD-RW:

DVD+R: 12cm 4 7GB

DVD approximate Recording time (using 4.7GB disc):

XP: 10 MBps 60min

SP: 5 MBps 120min LP: 3 MBps 240min

360 - 480min

EP: 1.7 / 1.2 MBps

Playable disctype:

DVD-RAM DVD-R. DVD-RW DVD+R, DVD+RW DVD-Video, DVD-Audio CD-Audio (CD-DA), Video CD SVCD (IEC62107)

CD-R/CD-RW

(CD-DA, Video CD formatted discs) MP3 (audio), JPG (picture)

Maximum tracks 999 tracks (recognizable) Maximum groups 99 groups (recognizable)

TV tuner system: UHF: CH21-CH68

RF Converter Output: CH21-CH68 (71±3dBuV; 75Ω) DV input:

Picture input: JPEG/TIFF Still Picture

SD Card Slot

Compatible Cards SD Card / Multimedia Card miniSD™ Card with adapter

FAT12, FAT16 / 34x34 to 6144x4096

PAL / NTSC (IEEE1394 Standard) 4pin

Format / Pixels

Video input: Video in AV1 / AV2

21 pin connector (1.0Vp-p. 75Ω) Video in AV3 / AV4 pin jack connector (1.0Vp-p, 75Ω) S-Video in AV1 / AV2

21 pin connector $(Y: 1.0Vp-p, C:0,3Vp-p 75\Omega)$

S-Video in AV3 / AV4 pin jack connector

 $(1.0Vp-p, C:0,3Vp-p 75\Omega)$

RGB Video in AV2 (PAL) 21pin connector (0.7 Vp-p 75Ω)

Video output: Video out AV1 / AV2

21 pin connector (1.0Vp-p, 75Ω) FBAS (Composit) pin jack connector (1.0Vp-p. 75Ω) S-Video out pin jack, 21pin (AV1) and S connector

(Y: 1.0 Vp-p, 75Ω)

RGB Video AV1 21pin connector (0.7 Vp-p 75Ω) pin jack connector Y (1.0Vp-p 75Ω) Component Video out

pin jack connector PB (0.7Vp-p 75Ω)

pin jack connector PR (0.7Vp-p 75Ω)

Audio input: EURO AV (AV1 / AV2)

21 pin connector

(-6dBV, 500mV, more than $10k\Omega$) pin jack connector

CINCH IN (AV3 / AV4) (-6dBV, 500mV, more than $10k\Omega$)

Audio output: CINCH OUT

pin jack connector (-6dBV, 500mV, less than $1k\Omega$)

EURO AV (AV1 / AV2) 21 pin connector

(-6dBV, 500mV, less than $1k\Omega$)

OPTICAL OUT PCM, Dolby Digital, DTS, MPEG

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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Built-in decoders

You can play discs with these symbols.



Ref.No								IC 1502							
Mode	1	2	3	4	5	6	7	8							
Stop	3,31	0,02	0,00	1,94	5,00	0,05	0,04	3,75							
Play Rec	3,31 3,31	0,01	0,00	1,94 1,94	4,99 4,99	0,00	0,00	3,75 3,75							
Rec	उ,उ I	0,00	0,00	1,94	4,99	0,00	0,00	3,75							
Ref.No								IC 1507							
Mode	1	2	3	4	5										
Stop	3,76	3,25	3,33	2,64	0,00										
Play Rec	3,75 3,74	3,24 3,25	3,33 3,33	2,64 2,64	0,00										
Rec	5,74	5,25	0,00	2,04	0,00										
Ref.No								IC 1510				1	1	1	1
Mode	1 5,01	2 0,05	3	4 3,43	5	6	7	8							
Stop Play	5,01	0,05	0,00	3,43	4,98	0,04	0,04	5,86 5,84							
Rec	5,01	0,00	0,00	3,42	4,98	0,00	0,00	5,84							
	-,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,	- ,	,	,	,								
Ref.No	4	2	2	A	5	e	7	IC 3001	0	10	11	12	12	1.4	15
Mode Stop	1 2,03	2 2,53	3 1,58	0,00	1,58	6 5,15	0,00	8 0,02	9 0,02	0,06	11 0,00	12 0,56	13 0,00	14 1,28	15 1,34
Play	2,04	2,53	1,58	0,00	1,59	5,13	0,00	5,13	0,86	0,05	0,00	0,92	0,00	1,66	1,80
Rec	2,03	2,53	1,58	0,00	1,58	5,15	0,00	5,12	0,95	0,08	0,00	0,96	0,00	1,68	1,61
Ref.No										-					
Mode	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stop	1,58	0,55	0,00	1,28	1,34	0,02	0,01	0,01	0,01	0,01	0,01	11,06	0,01	0,00	1,65
Play Rec	1,59 1,59	1,04 0,9	0,00	1,60 1,73	1,60 1,66	0,00	1,73 1,73	1,73 1,73	1,64 1,74	5,13 5,13	1,42 1,49	10,94 11,06	1,42 1,52	0,00	1,66 2,76
Ref.No	1,59	0,9	0,00	1,73	1,00	0,00	1,73	1,73	1,74	5,15	1,49	11,00	1,52	0,00	2,70
Mode	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Stop	1,59	0,00	2,07	3,90	1,60	0,06	1,60	0,07	1,60	5,13	1,57	5,07	2,00	0,00	1,99
Play	1,60	0,00	2,18	3,90	1,60	0,06	1,60	0,06	1,60	5,13	1,57	5,08	2,00	0,00	2,00
Rec	1,59	0,00	2,19	3,88	1,60	0,06	1,60	0,06	1,60	5,13	1,57	5,07	2,00	0,00	2,00
Ref.No	46	47	40	40	50	E4	5 2	F 2	EA	EE	EC	67	F 0	50	60
Mode Stop	11,68	47 1,91	48 2,00	49 4,46	50 4,45	51 4,45	52 4,44	53 4,43	54 4,43	55 4,44	56 4,44	57 8,95	58 4,45	59 4,44	60 4,44
Play	11,69	1,88	2,00	4,47	4,45	4,44	4,44	4,43	4,43	4,44	4,44	8,96	4,45	4,44	4,44
Rec	11,68	2,00	2,00	4,46	4,45	4,45	4,44	4,43	4,43	4,44	4,44	8,95	4,45	4,44	4,44
Ref.No	1							1							1
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Stop Play	4,33 4,33	4,45 4,45	4,46 4,45	4,45 4,45	9,08 9,01	0,07	0,07	0,07	0,07 0,01	0,01	4,48 4,48	4,47 4,48	4,47 4,47	4,47 4,48	0,00
Rec	4,33	4,45	4,46	4,45	9,01	0,00	0,02	0,00	0.04	0,05	4,48	4,48	4,47	4,47	0,00
Ref.No	7,00	7,70	7,70	7,70	0,01	0,00	0,00	0,02	0,04	0,00	4,40	7,70	7,77	7,77	0,00
Mode	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Stop	4,47	0,07	4,48	4,48	0,00	2,12	5,02	1,35	5,07	1,72	0,24	0,00	4,46	4,03	0,01
Play	4,48	0,08	4,48	4,48	0,00	2,12	5,03	1,35	5,07	1,66	0,25	0,20	4,47	4,02	0,01
Rec Ref.No	4,47	0,09	4,48	4,48	0,00	2,12	5,02	1,35	5,07	1,72	0,24	0,21	4,46	4,03	0,01
Mode	91	92	93	94	95	96	97	98	99	100					
Stop	2,03	0,87	2,09	5,07	1,62	0,00	1,62	0,00	1,62	2,49					
Play	2,03	0,88	2,00	5,07	1,87	0,00	1,76	0,00	1,80	2,49					
Rec	2,03	0,87	2,11	5,07	1,74	0,00	1,76	0,00	1,78	2,49					
Ref.No								IC 4009							
Mode	1	2	3	4	5	6	7	8							
Stop	5,84	5,84	5,84	0,00	5,84	5,84	5,84	11,69	_						
Play	5,84	5,84	5,84	0,00	5,84	5,84	5,84	11,69							
Rec	5,84	5,84	5,84	0,00	5,84	5,84	5,84	11,69							
Ref.No								IC 4011							
Mode	1	2	3	4	5										
Stop	1,24	0,00	5,00	5,85	5,00					_					_
Play	1,24	0,00	4,99	5,84	5,00										
Rec	1,24	0,00	5,00	5,85	5,00										

Ref.No								IC 7301							
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Stop	2,50	2,49	4,99	0,01	0,01	4,97	0,01	0,00	0,01	0,07	0,01	0,06	0,01	1,61	1,57
Play	2,50	2,49	4,99	0,01	0,01	4,97	0,01	0,00	0,01	0,03	0,01	0,06	0,01	1,57	1,56
Rec	2,5	2,49	4,99	0,01	0,01	4,97	0,01	0,00	0,01	0,07	0,01	0,06	0,01	1,57	1,57
Ref.No															
Mode	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stop	0,01	0,01	2,00	0,01	0,01	3,22	0,01	1,94	1,94	1,94	4,98	0,01	4,99	4,50	4,00
Play	0,01	0,01	2,00	0,01	0,01	3,22	0,01	1,94	1,94	1,94	4,98	0,01	4,99	4,47	4,00
Rec	0,01	0,01	2,00	0,01	0,01	3,22	0,01	1,94	1,94	1,94	4,98	0,01	4,99	4,47	4,00
Ref.No			•				,		•	,				,	
Mode	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
Stop	0,04	0,04	0,04	0,06	5,01	0,01	4,99	2,49	2,49	2,49	2,50	4,99	2,50	0,01	
Play	0,04	0,04	0,04	0,06	5,01	0,01	4,99	2,49	2,49	2,49	2,50	4,99	2,50	0,01	
Rec	0,04	0,04	0,04	0,06	5,01	0,01	4,99	2,49	2,49	2,49	2,50	4,99	2,50	0,01	
-															
Ref.No			•					IC 7461	•	,				,	
Mode	1	2	3	4	5	6	7	8							
Stop	12,23	4,45	1,22	1,27	0,05	0,00	10,26	12,29							
Play	12,28	4,45	1,22	1,27	1,21	0,00	10,26	12,29							
Rec	12,28	4,45	1,22	1,27	0,03	0,00	10,23	12,27							
Ref.No				1		1	ı	IC 7462		ı	1	1		ı	1
Mode	1	2	3	4	5	6									
Stop	1,93	1,93	10,23	12,28	1,93	1,93									
Play	1,93	1,93	10,23	12,27	1,93	1,93									
Rec	1,93	1,93	10,25	12,27	1,93	1,93									

Ref.No								IC 7501							
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Stop	4,50	5,01	0,24	0,60	0,62	4,50	0,01	0,01	0,89	1,25	5,05	1,85	0,01	2,08	3,43
Play	4,50	5,01	0,24	0,60	0,62	4,50	0,01	0,01	0,89	1,25	5,05	1,85	0,01	2,08	3,43
Rec	4,48	5,01	0,24	0,60	0,62	4,50	0,01	0,01	0,89	1,25	5,05	1,85	0,01	2,08	3,43
Ref.No															
Mode	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stop	5,05	3,32	3,26	3,26	3,41	0,03	0,03	0,03	3,43	0,03	0,01	0,03	4,42	4,00	0,01
Play	5,05	3,32	3,26	3,26	3,41	0,03	0,03	0,03	3,43	0,03	0,01	0,03	4,42	4,00	0,01
Rec Ref.No	5,05	3,32	3,26	3,26	3,41	0,03	0,03	1,32	3,43	0,03	0,01	0,03	4,42	4,00	0,01
Mode	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Stop	0,90	1,58	0,01	5,05	2,57	0,01	0,03	0,11	3,30	3,42	0,02	0,12	3,25	3,42	0,03
Play	0,90	1,58	1,19	5,05	2,58	0,01	0,03	0,11	3,29	3,43	0,02	0,12	3,25	3,42	0,03
Rec	0,92	1,58	0,01	5,05	0,04	0,02	0,03	0,12	3,30	3,42	0,02	0,14	3,25	3,42	0,03
Ref.No	0,30	1,50	0,01	3,03	0,04	0,02	0,03	0,11	3,30	5,42	0,02	0,12	3,23	5,42	0,03
Mode	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Stop	0,03	5,04	5,05	5,03	5,01	5,00	0,00	5,04	0,01	5,05	0,01	0,03	0,03	0,03	0,03
Play	0,03	5,03	5,04	5,02	5,01	4,99	0,00	5,03	0,01	5,04	0,01	0,03	0,04	0,03	0,03
Rec	0,03	5,04	5,05	5,03	5,01	5,00	0,00	5,04	0,01	5,03	0,01	0,03	0,04	0,03	0,03
Ref.No	-,00	-,~ 1	-,00	-,	-,~ '	-,		-, - '	-,~ '			,			-,
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Stop	0,03	5,05	5,05	0,03	0,03	0,03	0,03	0,03	5,05	0,03	0,01	0,03	0,03	0,05	5,05
Play	0,03	5,05	5,04	0,04	0,04	0,04	0,03	0,03	5,05	0,04	0,02	0,02	0,04	0,06	5,04
Rec	0,03	5,05	5,05	0,03	0,03	0,03	0,03	0,03	5,05	0,03	0,01	0,03	0,03	0,05	5,05
Ref.No			•			•							•		
Mode	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Stop	0,03	5,05	0,03	0,03	5,03	0,03	5,04	0,03	0,03	0,03	0,03	5,05	0,03	0,03	0,03
Play	0,03	5,04	0,03	0,04	5,03	0,03	5,04	0,04	0,04	0,03	0,03	5,04	0,04	0,03	0,03
Rec	0,03	5,05	0,03	0,03	5,03	0,03	5,04	0,03	0,03	0,03	0,03	5,04	0,03	0,03	0,03
Ref.No			1			1							•		
Mode	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Stop	0,03	0,03	5,05	0,03	5,05	2,59	0,06	0,06	4,81	0,00	5,05	5,05	0,01	5,05	5,05
Play	0,03	0,03	5,04	0,03	5,05	2,59	0,03	0,03	4,82	4,22	5,04	5,04	0,02	5,04	5,04
Rec	0,03	0,03	5,05	0,03	5,03	2,59	0,06	0,06	4,81	0,00	5,04	5,04	0,01	5,03	5,03
Ref.No	400	407	400	400	440	444	440	440	44.4	445	440	447	440	440	400
Mode	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Stop	5,05	3,86	5,05	1,63	1,28	0,01	5,06	1,65	0,01	0,02	3,86				
Play	5,04	3,82	5,05	1,80	1,29	0,01	5,06	1,77	0,01	0,02	3,82				
Rec	5,03	3,86	5,03	1,63	1,28	0,01	5,06	1,87	0,01	0,02	3,86				
Ref. No								IC 7502							1
Mode	1	2	3	4	5			10 7 302							
Stop	0,01	0,01	0,01	5,05	5,05										
Play	0,01	0,01	0,01	5,04	5,04										
Rec	0,01	0,01	0,01	5,04	5,04										
	·	·	•	·	·				1						
Ref.No								IC 7503							
Mode	1	2	3	4	5	6	7	8							
Stop	0,01	0,01	0,01	0,01	3,85	4,46	5,05	5,05							
Play	0,01	0,01	0,01	0,01	3,85	4,46	5,03	5,04							
Rec	0,01	0,01	0,01	0,01	3,85	4,46	5,05	5,03							

Ref.No								IC 7504							
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Stop	5,05	0,03	4,45	0,60	0,01	2,22	2,21	5,05	28,08	28,08	28,08	28,08	28,08	28,08	28,08
Play	5,05	0,03	4,45	0,60	0,01	2,22	2,21	5,05	28,08	28,08	28,08	28,08	28,08	28,08	28,08
Rec	5,05	0,03	4,45	0,60	0,01	2,22	2,21	5,05	28,08	28,08	28,08	28,08	28,08	28,08	28,08
Ref.No															
Mode	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stop	28,08	28,08	5,05	28,08	18,60	12,27	24,69	28,08	24,89	24,88	28,08	28,08	0,37	18,75	18,54
Play	28,08	24,09	5,05	24,88	18,59	21,75	28,07	28,07	28,07	24,85	28,06	24,88	24,89	21,69	15,34
Rec Ref.No	28,08	24,89	5,05	24,87	15,42	18,58	28,04	28,05	28,07	28,05	28,05	28,05	15,37	15,37	15,33
Mode	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Stop	15,33	28,08	21,72	28,08	21,73	18,53	15,34	18,54	18,52	28,08	28,08	24,89	24,89	24,90	28,08
Play	21,73	21,73	21,72	21,78	21,78	18,53	18,84	18,54	18,56	24,74	28,08	24,92	24,94	28,13	24,95
Rec	15,33	24,90	24,87	24,89	15,38	15,33	15,34	18,54	15,33	24,74	28,07	28,07	28,07	28,07	24,08
Ref.No	10,00	24,00	24,07	24,00	10,00	10,00	10,04	10,04	10,00	2-1,00	20,07	20,01	20,01	20,07	24,00
Mode	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Stop	18,59	12,27	28,08	24,92	28,08	28,08	28,08	28,08	28,08	28,07	24,96	24,96	24,96	24,96	24,96
Play	15,47	18,63	28,13	28,13	28,14	28,08	28,08	28,13	28,13	28,13	25,01	25,01	25,02	25,02	25,02
Rec	12,25	18,58	28,07	24,91	28,07	28,07	28,07	28,07	28,07	28,07	24,96	24,96	24,97	24,97	24,97
Ref.No	. 2,20	.0,00		:,0 :	20,01	20,01	20,01	20,01	20,01	20,01	,00	,00	_ 1,01	,0 /	_ 1,07
Mode	61	62	63	64											
Stop	24,92	24,96	25,00	28,28											
Play	25,01	25,04	24,97	28,84											
Rec	24,93	24,98	24,96	28,28											
															·
Ref.No								IC 7505							
Mode	1	2	3	4	5										
Stop	5,05	5,82	0,01	0,01	0,01										
Play	5,04	5,80	0,01	0,01	0,00										
Rec	5,05	5,80	0,01	0,00	0,00										
Ref.No								IC 7506							
Mode	1	2	3	4	5										
Stop	2,20	0,00	0,01	0,00	0,00										
Play	2,20	3,33	0,01	0,01	0,01										
Rec	2,20	0,00	0,01	0,00	0,00										
Ref.No		_					_	IC 7509			ı	ı		ı	1
Mode	1	2	3	4	5	6	7	8							
Stop Play	0,58 0,59	0,03	0,03	0,00	0,25 0,25	0,22	11,09 11,09	12,30 12,29							
Rec	0,60	0,01	0,03	0,00	0,25	0.00	11,05	12,29							
1100	5,50	5,51	5,55	5,50	5,20	5,50	. 1,00	12,20	<u> </u>		l	l		l	

								P 7402							
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Stop	0,02	0,01	0,00	3,42	0,05	3,42	3,29	3,25	0,23	0,25	3,29	3,32	3,30	3,32	3,30
Play	0,00	0,00	0,01	3,41	0,00	3,41	3,29	3,25	0,23	0,24	3,28	3,24	3,28	3,31	2,29
Rec	0,00	0,00	0,00	3,42	0,01	3,42	3,29	3,25	0,23	0,25	3,28	3,24	3,28	3,31	3,29
Ref.No		1	1	1	1			1				1	1	1	
Mode	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stop	3,42	5,00	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,00	0,01	0,00	3,29	2,49	0,01
Play	3,41	5,00	0,02	0,04	0,04	0,04	0,02	0,04	0,01	0,00	0,01	0,00	3,29	2,49	0,00
Rec	3,42	5,00	0,02	0,02	0,02	0,03	0,01	0,02	0,02	0,01	0,02	0,01	3,29	2,50	0,03
Ref.No															
Mode	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Stop	2,49	0,01	0,00	0,00	0,00	1,65	0,00	3,30	2,42	0,03	2,44	3,30	0,00	0,00	0,00
Play	2,49	0,01	0,00	0,00	0,00	1,64	0,00	3,30	2,42	0,03	2,44	3,30	0,00	0,00	0,00
Rec	2,50	0,01	0,00	0,01	0,00	1,64	0,00	3,30	2,42	0,00	2,45	3,30	0,01	0,01	0,01
Ref.No	40	47	40	40	50	F4	50				50				
Mode	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Stop	0,00	0,99	5,01	0,00	0,05	1,44	5,01	0,00	0,05	0,71	3,70	0,00	3,76	0,70	5,85
Play	0,00	1,13	5,01	0,00	0,04	1,44	5,01	0,00	0,02	0,98	3,75	0,00	3,75	0,73	5,84
Rec	0,01	1,00	5,01	0,01	0,00	1,44	5,01	0,01	0,01	0,93	3,75	0,01	3,75	0,89	5,84
Ref.No Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Stop	0,00	5,85 5,84	0,71 0,77	5,85 5,84	0,00	0,02	0,00	3,31 3,31	0,00	3,31	0,00	3,31 3,31	0,00	3,31 3,31	0,00
Play	0,00	5,84	,		0,00	0,02	,	,	,	3,31	,		,	,	0,00
Rec Ref.No	0,00	5,04	0,82	5,84	0,00	0,03	0,00	3,31	0,01	3,31	0,00	3,31	0,00	3,31	0,00
Mode	76	77	78	79	80	81	82	83	84	85	86	87	88		
Stop	1,51	0,00	0,24	0,00	1,51	0,00	1,50	1,35	1,50	0,00	1,50	2,12	1,50		
Play	1,50	0,00	0,24	0,00	1,50	0,00	1,49	1,55	1,49	0,00	1,49	2,12	1,49		
Rec	1,50	0,00	0,24	0,00	1,50	0,00	1,49	1,55	1,49	0,00	1,49	2,12	1,49		
Rec	1,50	0,00	0,23	0,00	1,00	0,00	1,40	1,00	1,40	0,00	1,40	2,10	1,40		
Ref.No								P 7412							
Mode	1	2	3	4	5	6	7	8	9	10	11	12			
Stop	0,01	2,18	2,14	0,00	2,59	0,62	0,00	0,33	0,00	5,79	0,00	5,79			
Play	0,03	2,18	2,15	0,00	0,91	0,62	0,00	0,49	0,00	5,79	0,00	5,79			
Rec	0,03	2,18	2,15	0,00	1,52	0,62	0.00	0,47	0,00	5,79	0.00	5,79			
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Ref.No								P 7413							
Mode	1	2	3	4	5	6	7	8	9	10	11				
Stop	4,52	3,86	2,56	3,29	3,29	0,05	1,86	3,31	0,03	11,71	0,03				
Play	4,46	3,84	2,59	3,29	3,30	0,04	1,86	3,31	0,04	11,71	0,04				
Rec	4,49	3,86	2,47	3,28	3,30	0,04	1,85	3,31	0,03	11,69	0,04				

	Q 3916			Q 3917			Q 3918			Q 3919			QR 391	0
E	В	С	Е	В	С	Е	В	С	Е	В	С	E	В	С
4,66	0,06	0,04	0,03	0,06	4,66	4,66	5,02		4,66	5,02	4,66	0	0,06	5,08
4,68	0,06	0,05	0,03	0,05	4,68	4,68	5,03		4,68	5,03	4,68	0	0,06	5,09
4,64	0,06	0,03	0,02	0,06	4,64	4,64	5,01		4,64	5,01	4,64	0	0,06	5,07

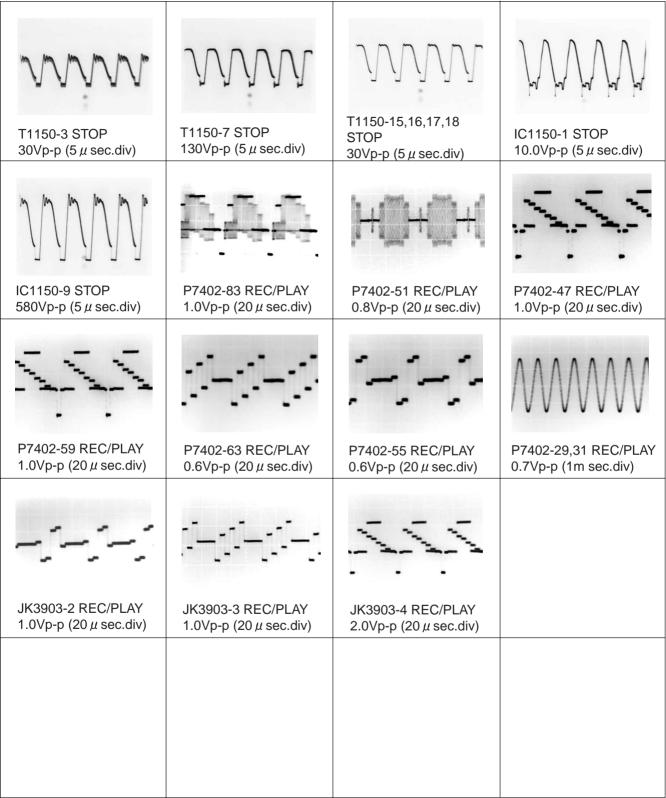
	Q 4007			Q 4008			Q 4009			Q 4060			QR 406	0
E	В	С	Е	В	С	Е	В	С	Е	В	С	Е	В	С
0	0,02	0	0,02	0	0	0,02	0	0	3,30	3,31	5,3	5,81	5,30	0
0	0,01	0	0,02	0	0	0,02	0	0	3,30	3,31	5,3	5,80	5,29	0
0	0,01	0	0,02	0	0	0,02	0	0	3,29	3,31	5,3	5,80	5,29	0

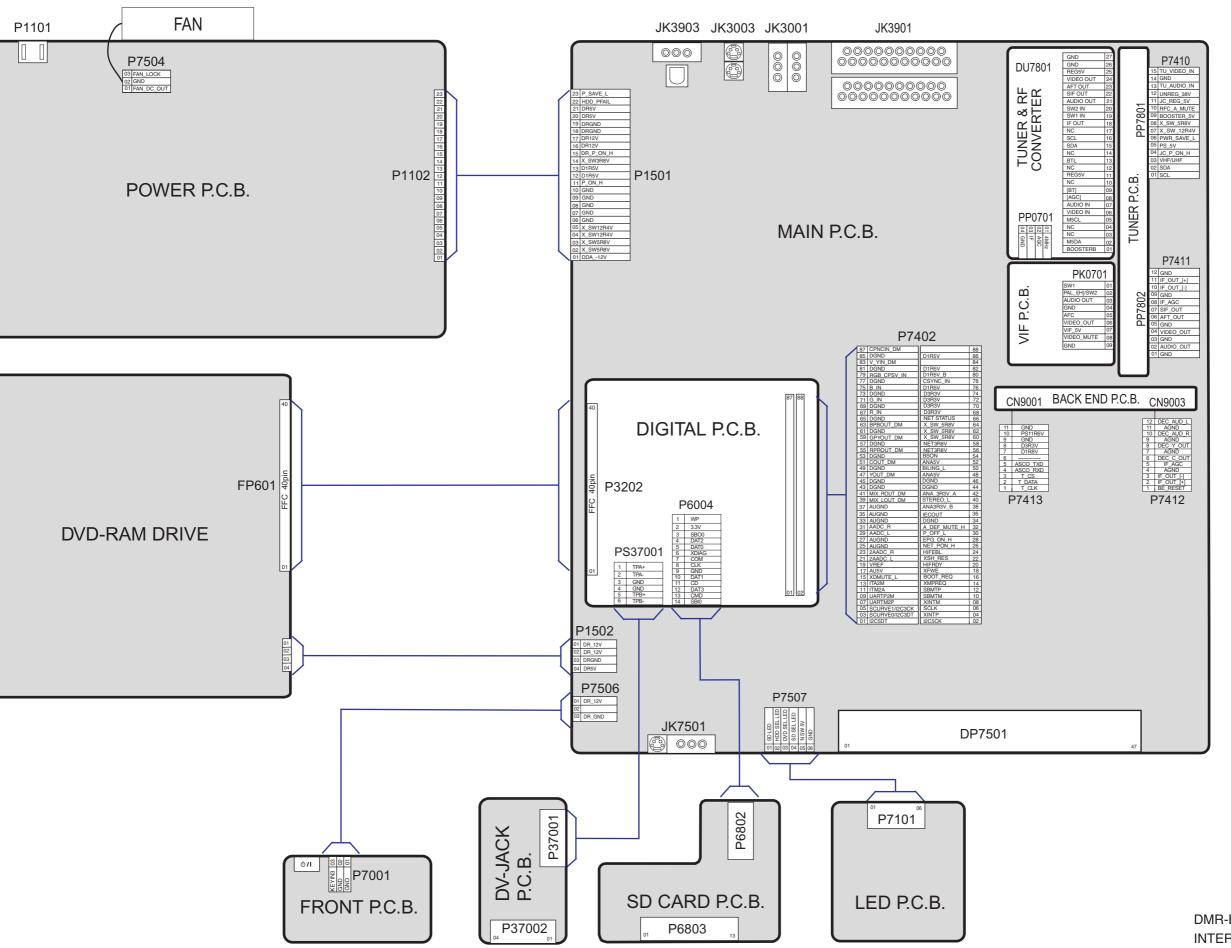
	QR 740	1		QR 741	0		QR 741	1		QR 741	2		QR 741	5
E	В	С	Е	В	С	E	В	С	Е	В	С	E	В	С
0	0,03	2,27	37,33	0,03	37,30	0	2,27	0,03	11,07	11,05	0,05	0	0,03	11,05
0	0,03	2,27	37,33	0,03	37,28	0	2,27	0,03	10,95	0,02	10,93	0	5,01	0,05
0	0,03	2,27	37,19	0,03	37,16	0	2,28	0,02	10,98	11,01	0,01	0	0,03	10,98

	QR 746	1		Q 7501			Q 7502			Q 7503			Q 7504	
E	В	С	Е	В	С	Е	В	С	Е	В	С	Е	В	С
0	3,33	0,04	2,68	2,04	0	1,63	5,02	2,01	2,59	2,01	0	2,11	1,62	5,02
0	3,33	0,03	2,79	2,38	0	1,99	1,63	5,03	2,96	2,25	0	2,32	1,62	5,04
0	3,33	0,04	2,53	2,01	0	1,62	2,21	5,01	2,83	1,93	0	1,98	1,62	5,01

	Q /50/			Q 7508			Q 7590			QR /50	3		QR /50	5
E	В	O	Е	В	C	Е	В	С	Е	В	C	Е	В	С
0	0,58	0,04	0	0,03	4,65	0,16	0,58	12,31	0	0,01	3,43	0	0,03	0,12
0	0,58	0,05	0	0,02	4,68	5,31	5,92	12,29	0	0,02	3,43	0	0,03	0,12
0	0,58	0,05	0	0,03	4,65	5,31	5,93	12,29	0	0,01	3,43	0	0,03	0,12

	QR 750	7		QR 750	8									
E	В	С	Е	В	С	Е	В	С	E	В	С	Е	В	С
0	2,37	0,02	5,04	0,06	5,03									
0	2,37	0,02	5,05	0,06	5,04									
0	2,37	0,02	5,04	0,05	5,04									

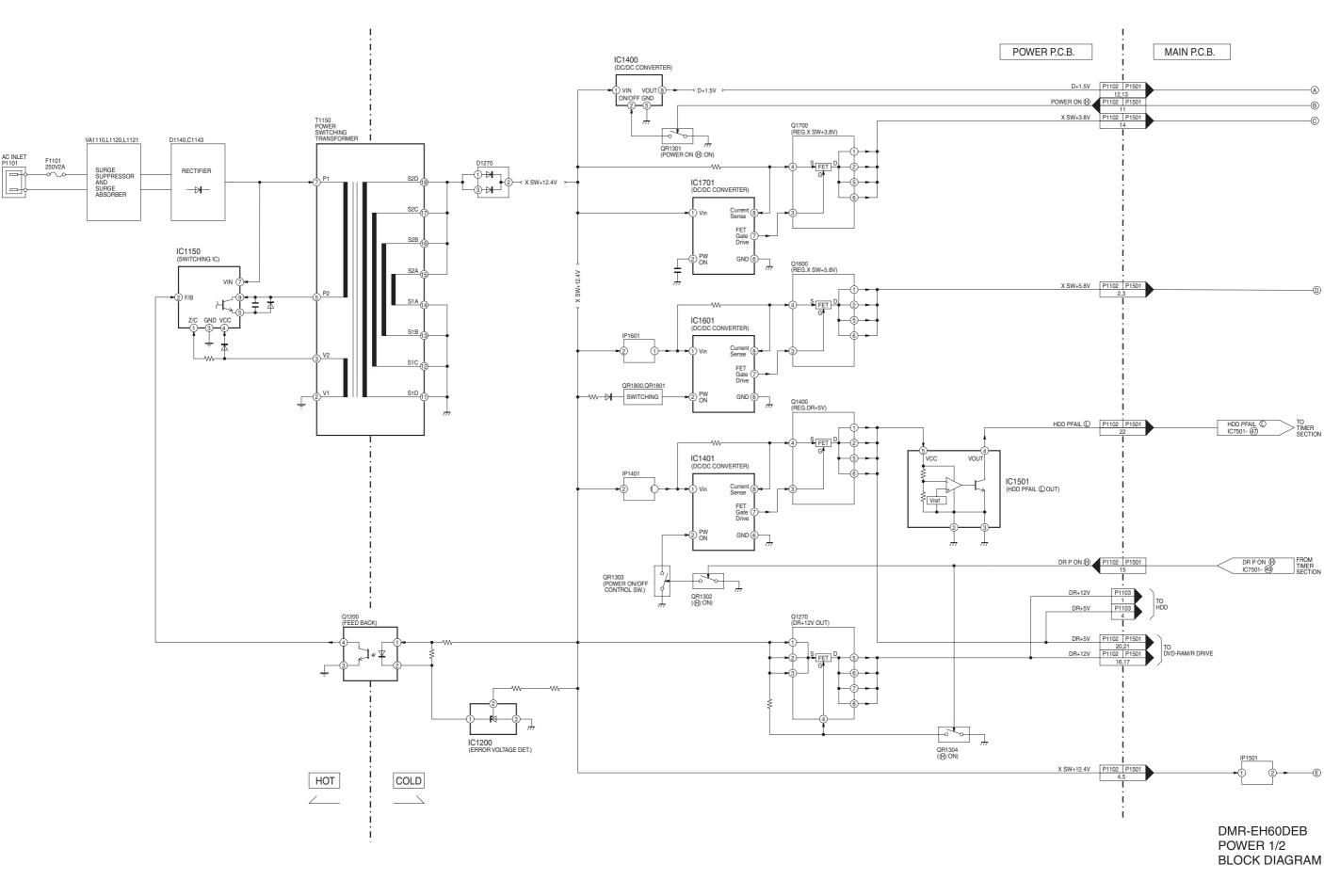


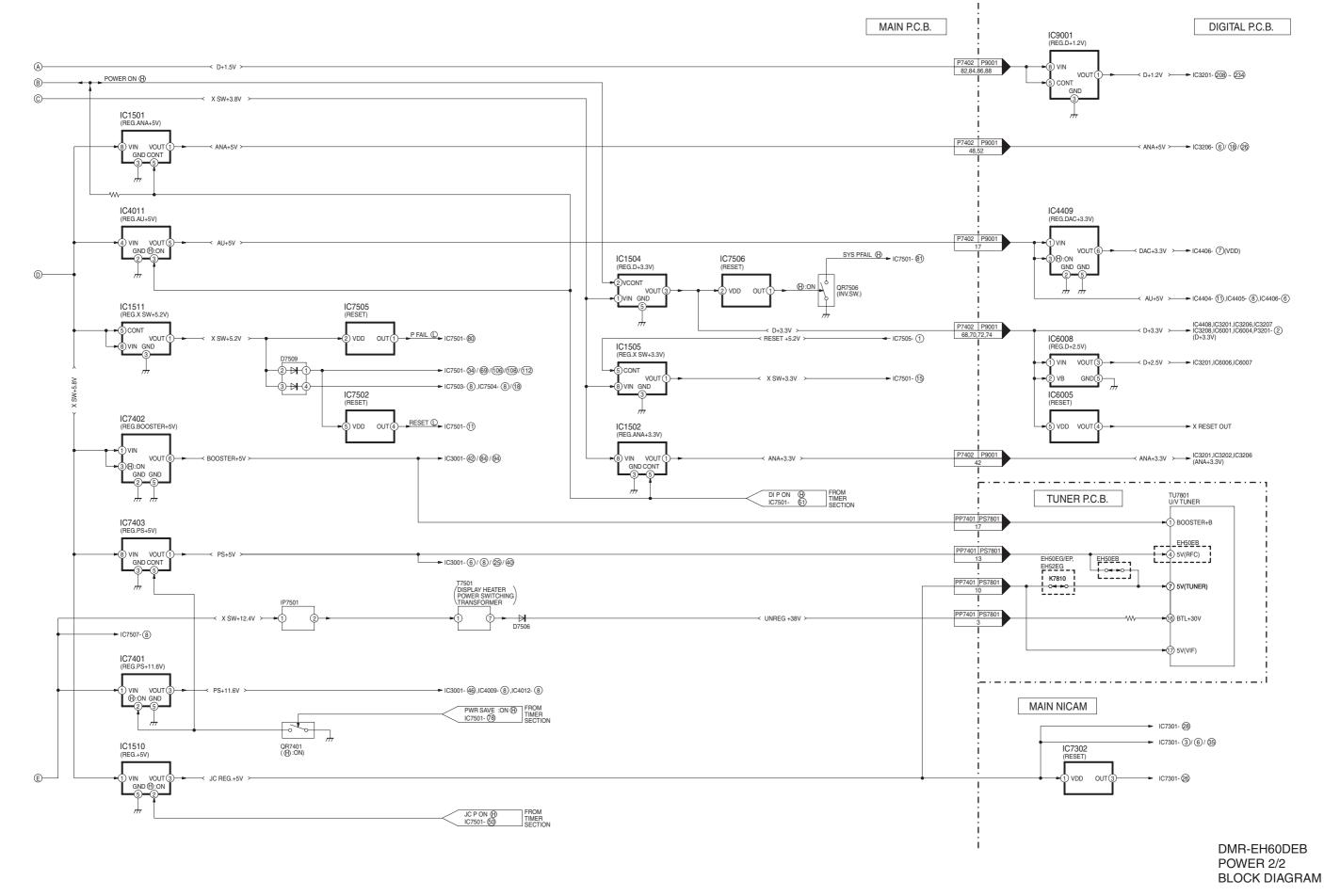


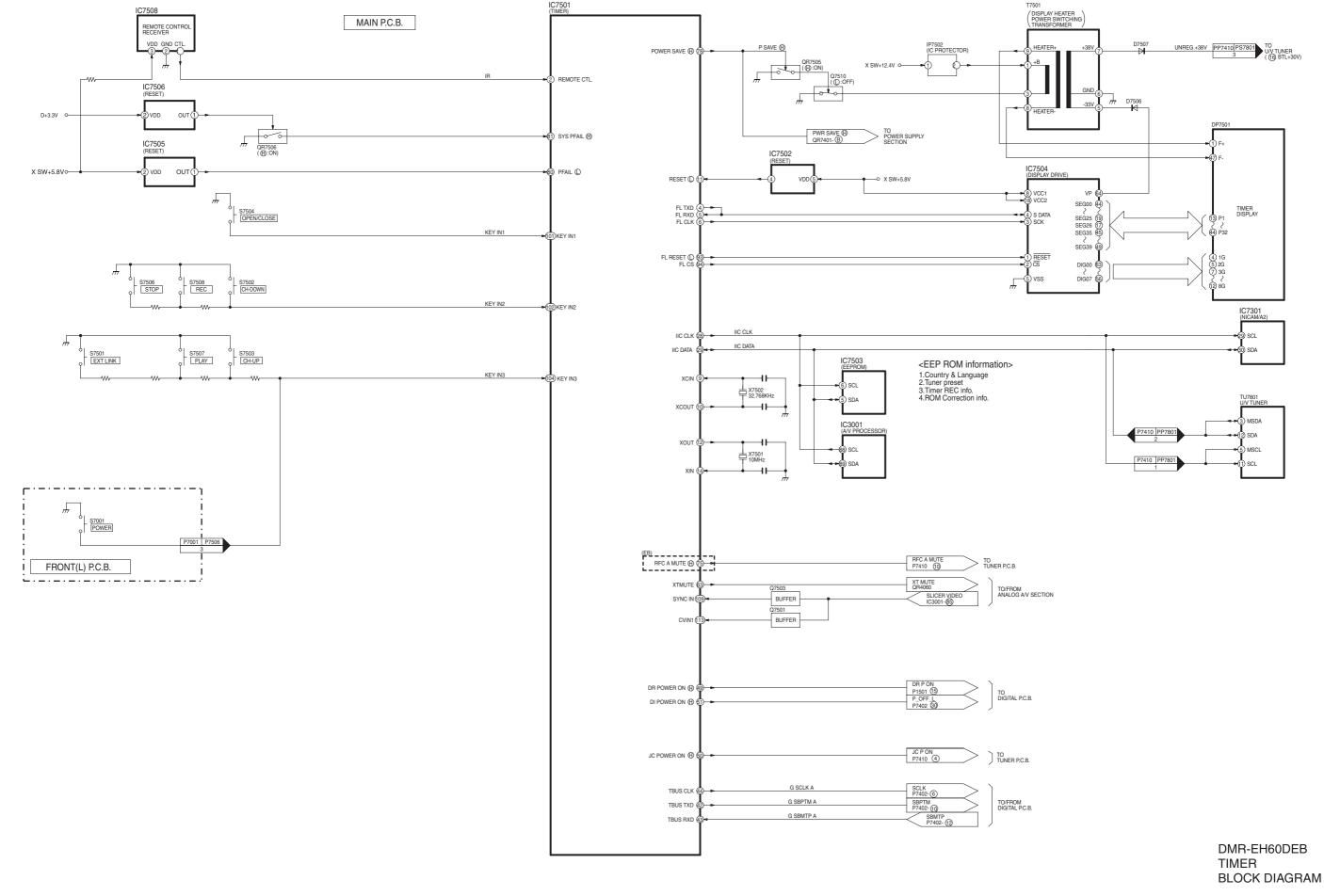
NAVIGATION

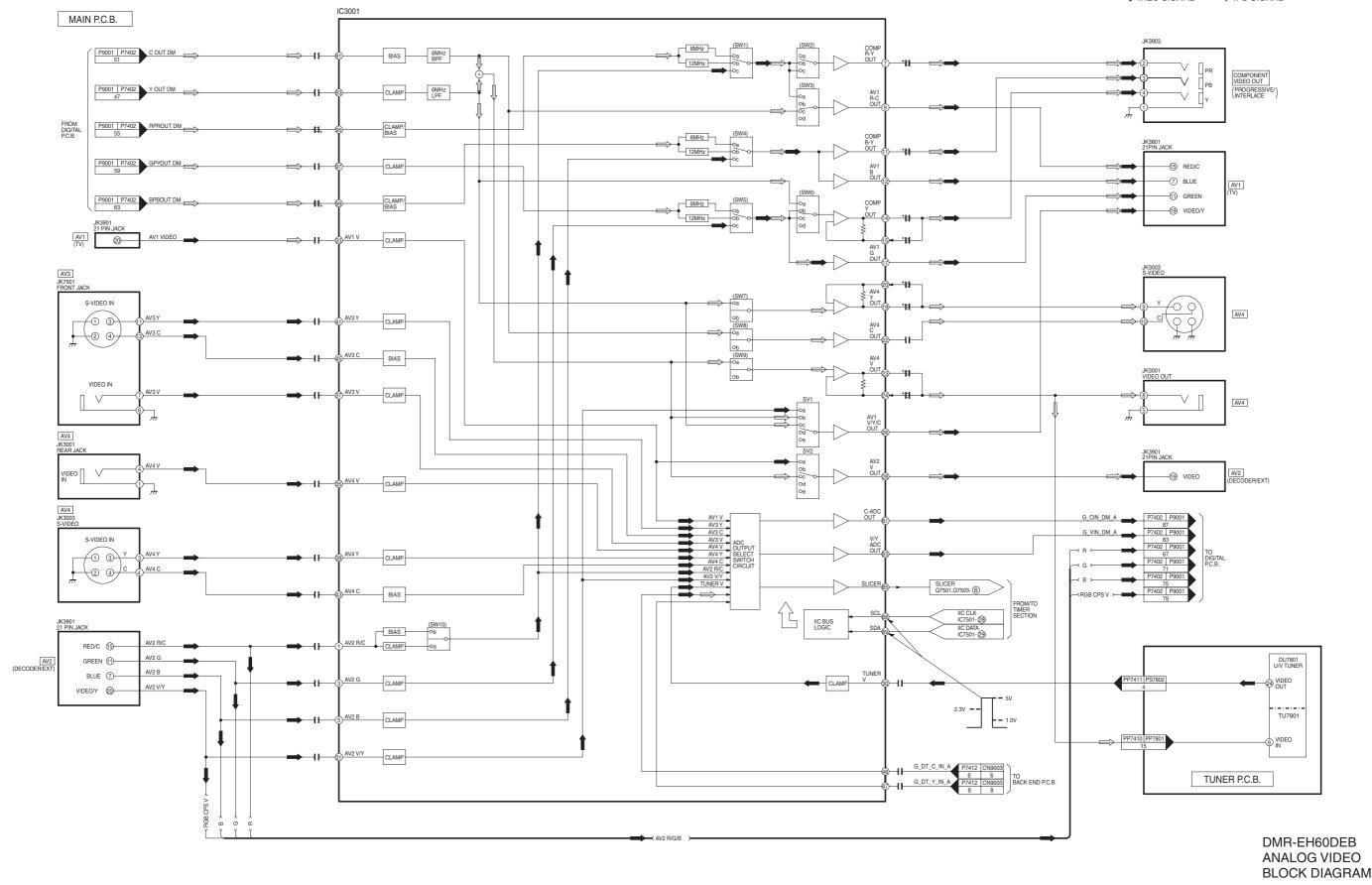
INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

DMR-EH60DEB
INTERCONNECTION DIAGRAM





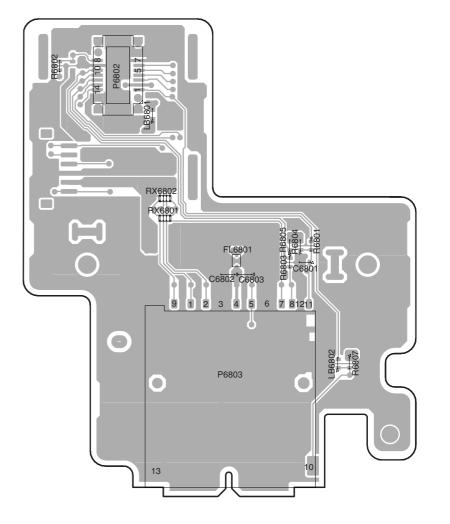




CKF8⊠ TL6804 TL6805

TL6806 TL6802

TL6803 TL6801 CKE10 COMPONENT SIDE



SOLDER SIDE

DMR-EH60DEB SD CARD P.C.B. COMPONENT SIDE/SOLDER SIDE VEP73121E

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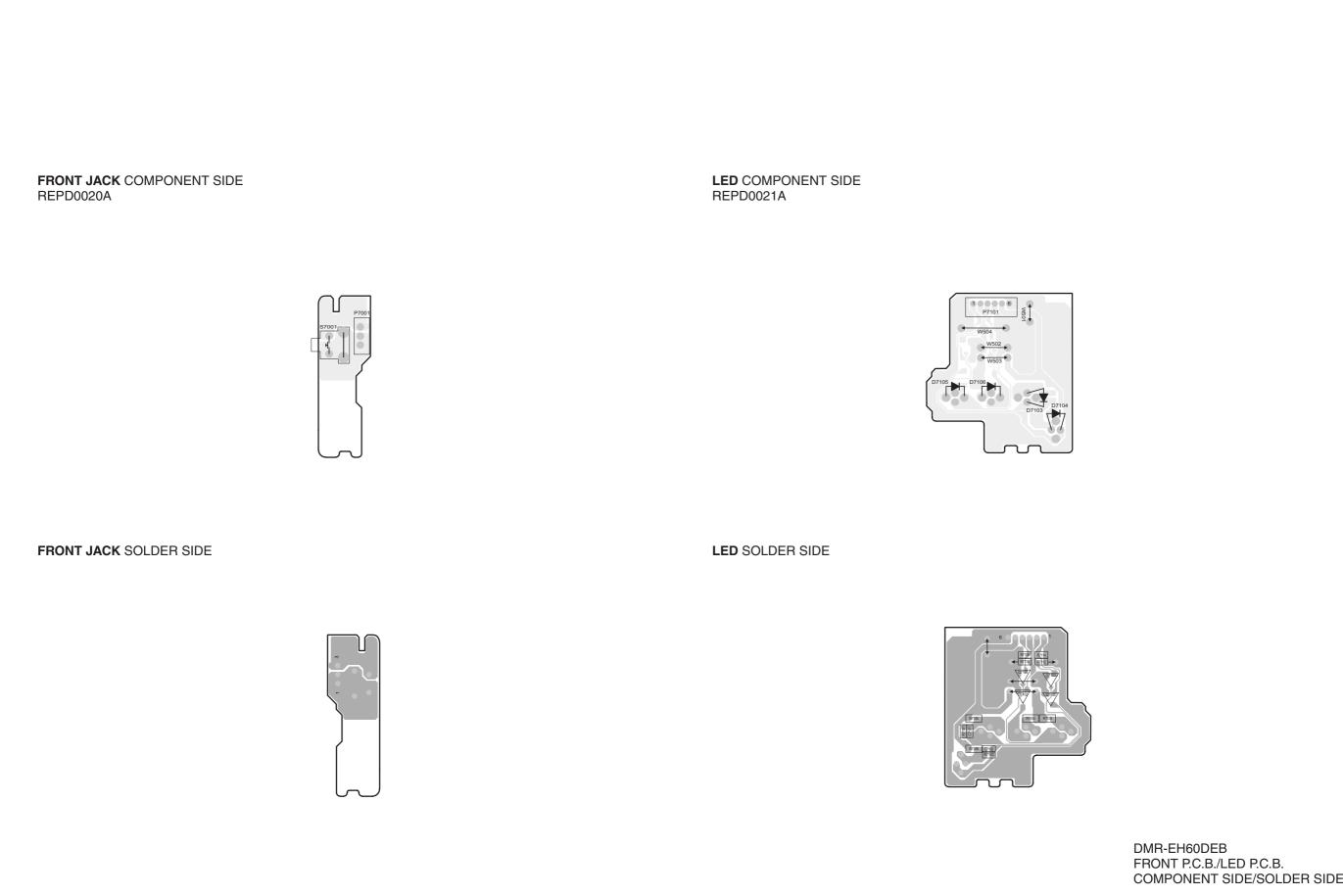
7

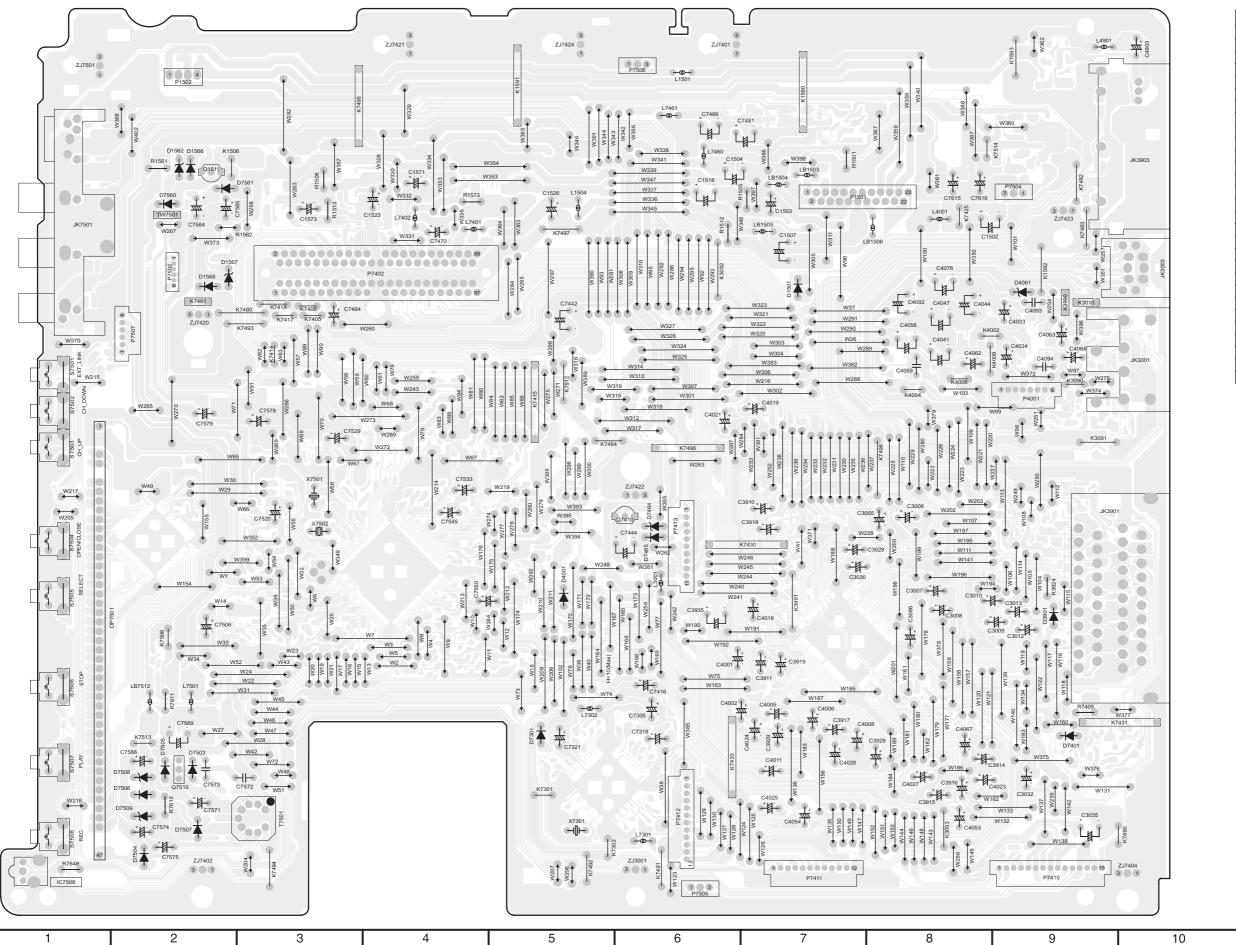
 T

3

9

10



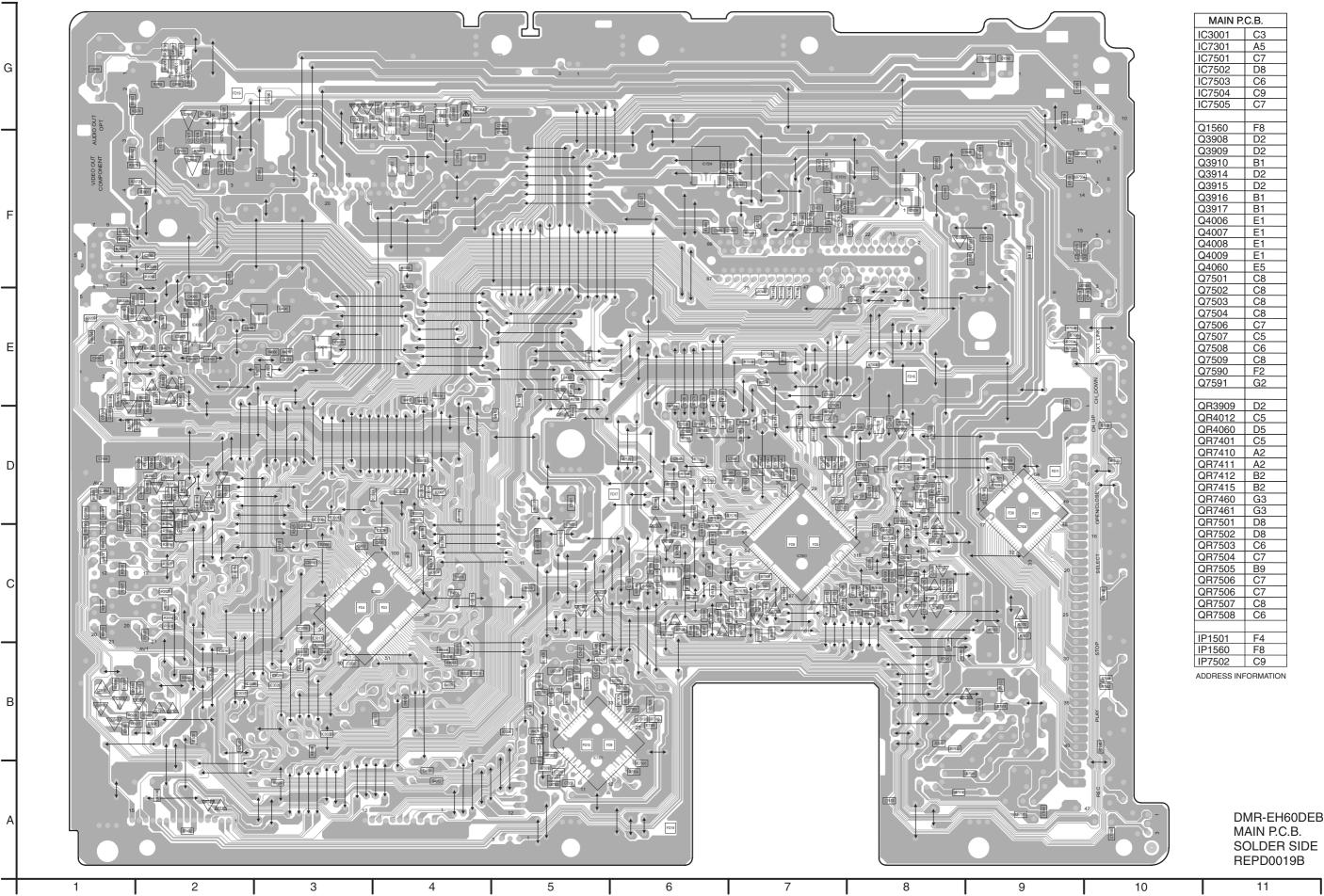


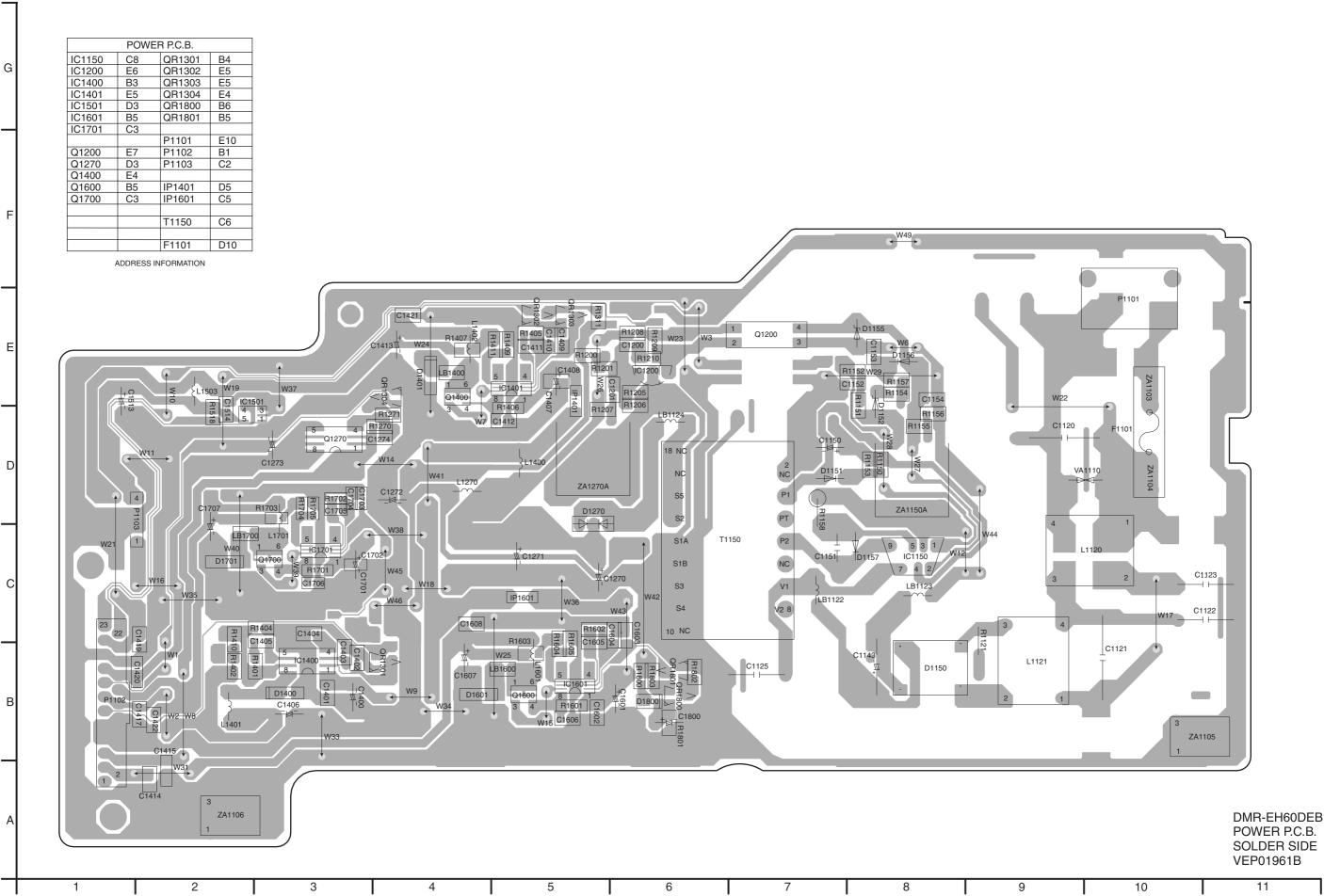
G

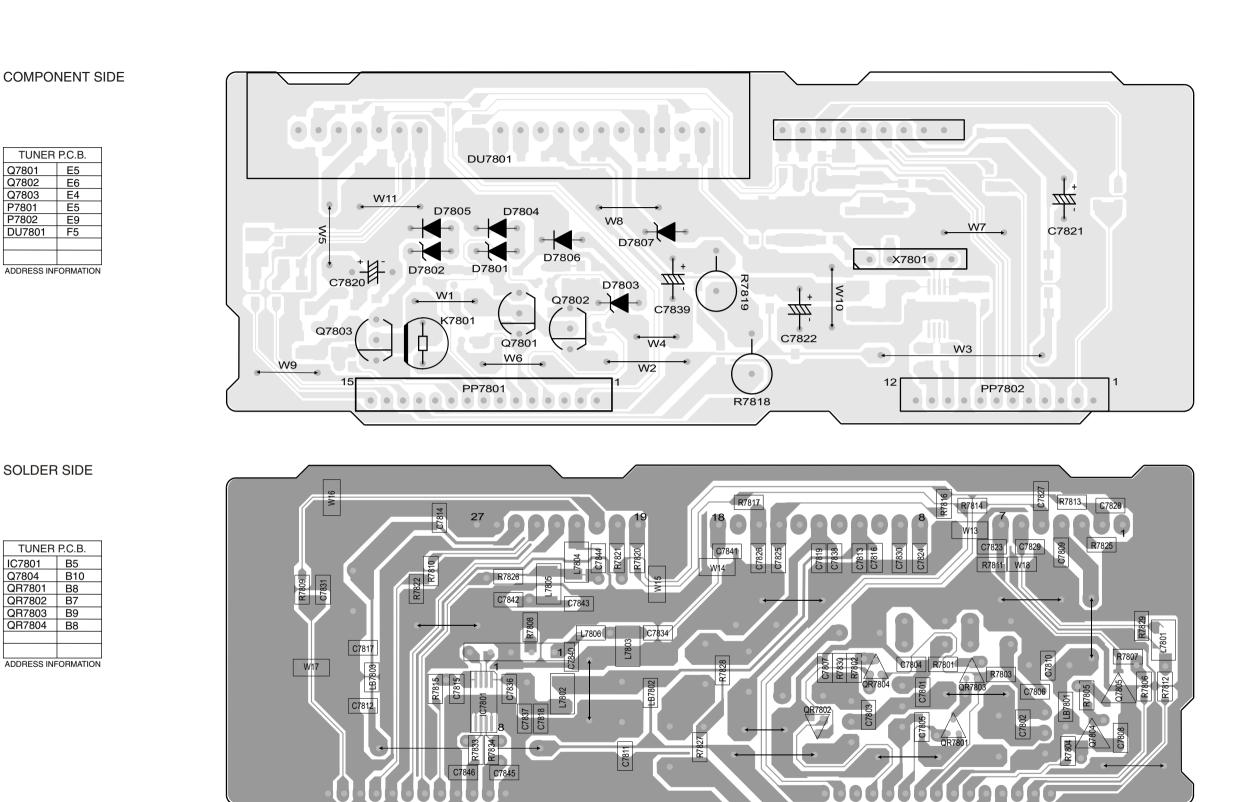
MAIN	
IC7508	A1
Q1511	F2
Q7410	D6
Q7510	B2
JK3001	E10
JK3003	F10
JK3901	D9
JK3903	F10
JK7501	F1
P1501	F7
P1502	G2
P4001	E9
P7402	F3
P7410	A9
P7411	A7
P7412	A6
P7413	D6
P7502	F2
P7504	F9
P7505	A6
P7506	G6
P7507	E2
DP7501	A1
TW7501	F2
T7501	A3

ADDRESS INFORMATION

DMR-EH60DEB MAIN P.C.B. COMPONENT SIDE REPD0019B







DMR-EH60DEB TUNER P.C.B. COMPONENT SIDE / SOLDER SIDE REPD0022A

G

TUNER P.C.B.

ADDRESS INFORMATION

SOLDER SIDE

TUNER P.C.B.

ADDRESS INFORMATION

QR7801

QR7802 QR7803

QR7804

B5

B8

В9

B8

B10

E5

E6

E4

E5

E9

F5

Q7801

Q7802

Q7803

P7801

P7802

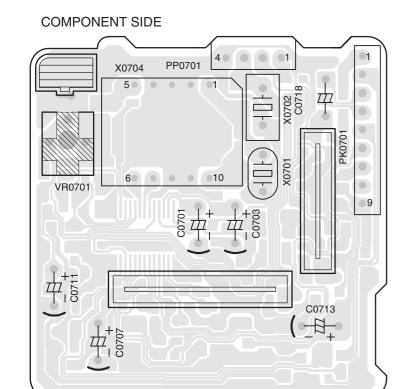
DU7801

2

3

8

10

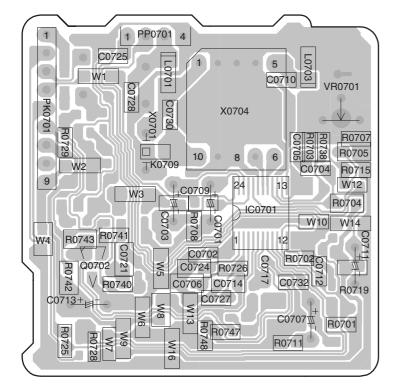


VIF P.C.B				
X0704	G2			
X0702	G3			
X0701	F3			
PP0701	G2			
PK0701	F3			

ADDRESS INFORMATION

SOLDER SIDE

G



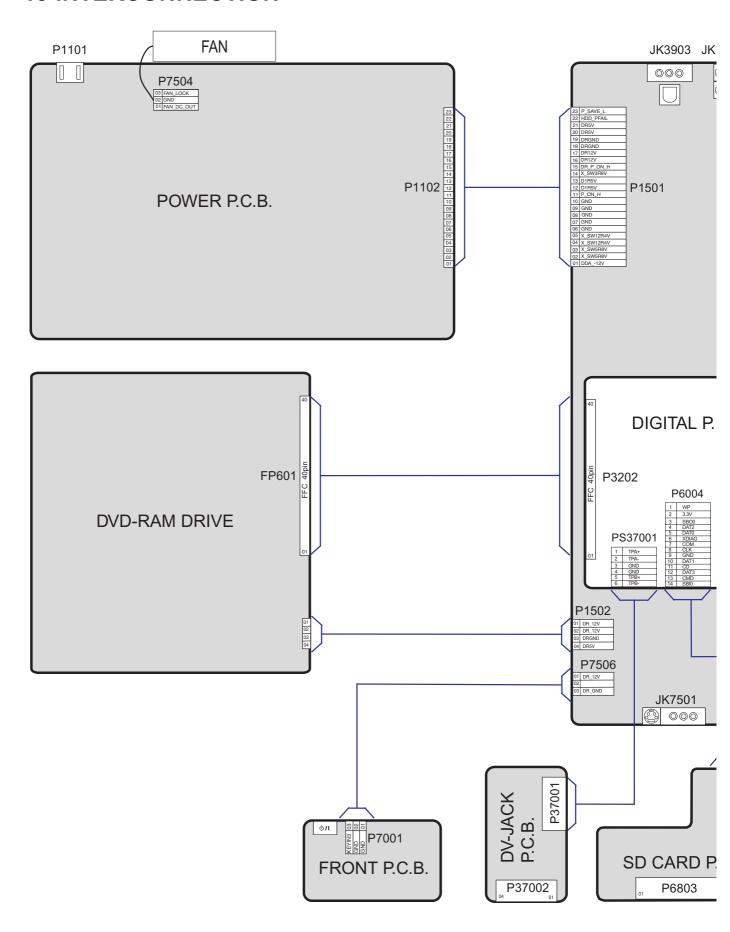
VIF P.C.B				
X0704	C3			
X0702	C2			
X0701	C2			
Q0701	B1			
IC0701	B3			
PP0701	D2			
PK0701	C1			

ADDRESS INFORMATION

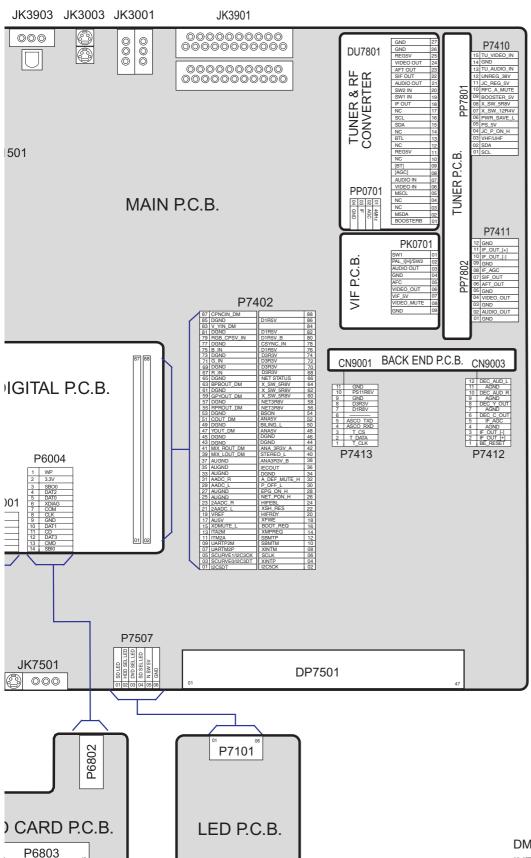
DMR-EH60DEB VIF P.C.B. COMPONENT SIDE / SOLDER SIDE VEP07A71M

1 2 3 4 5 6 7 8 9 10 11

18 INTERCONNECTION





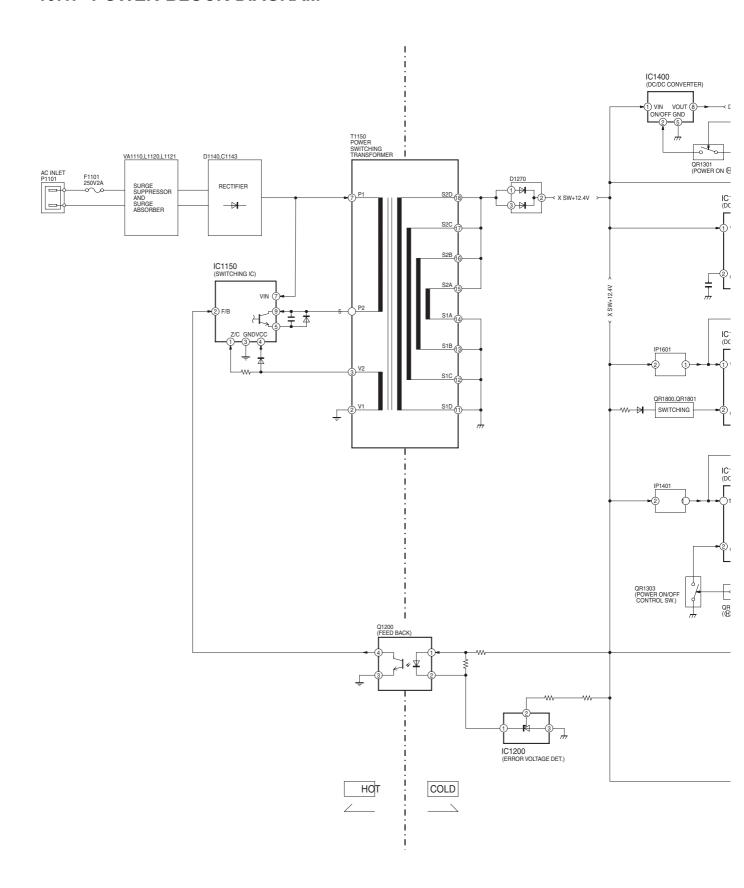


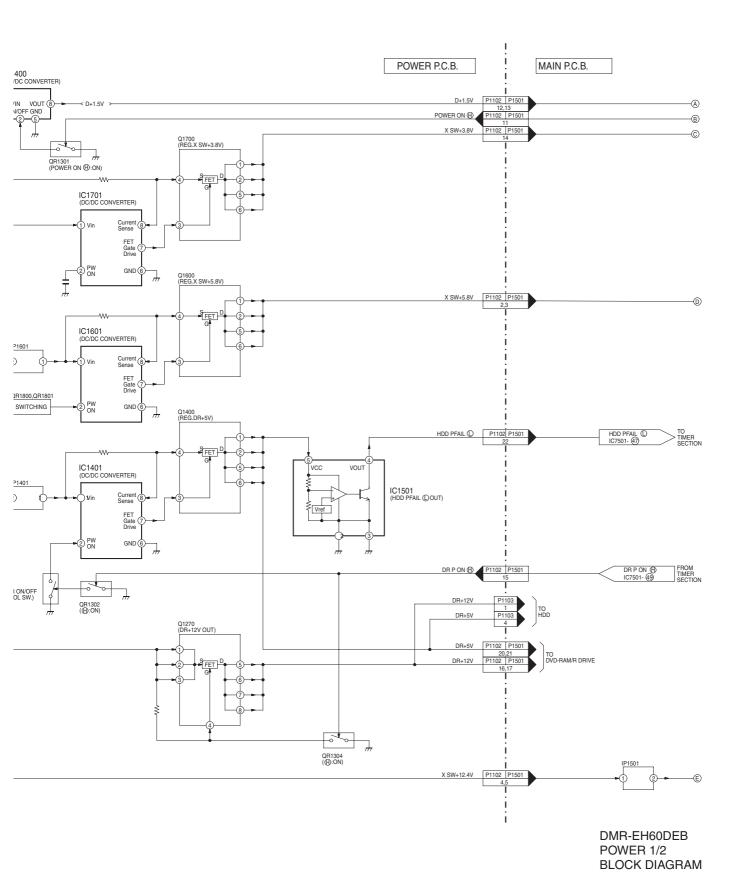
NAVIGATION
INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

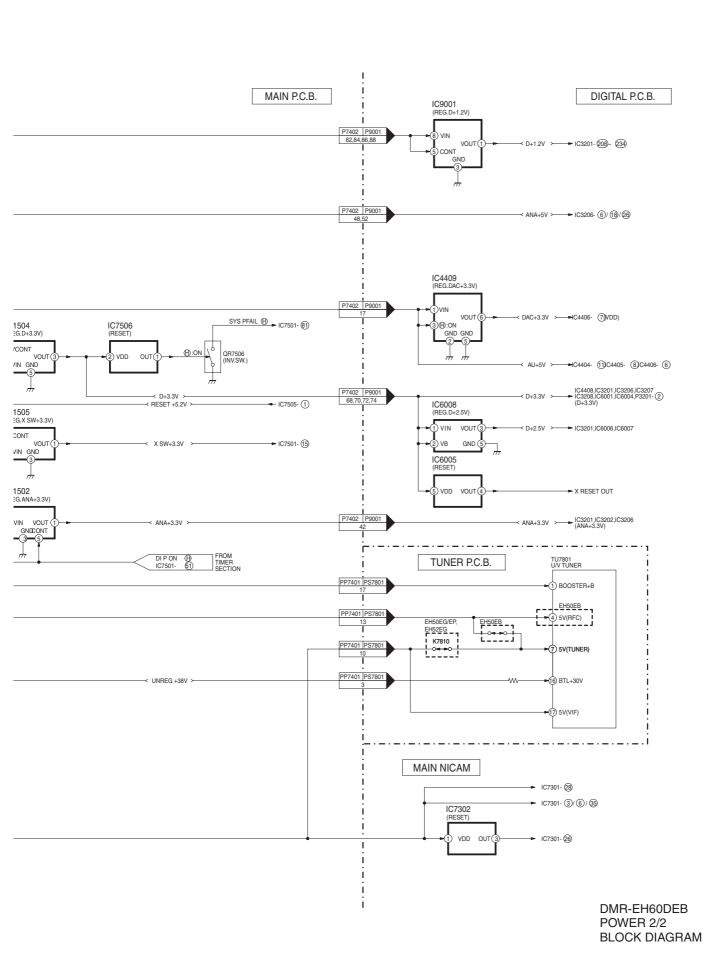
DMR-EH60DEB
INTERCONNECTION DIAGRAM

19 BLOCK DIAGRAM

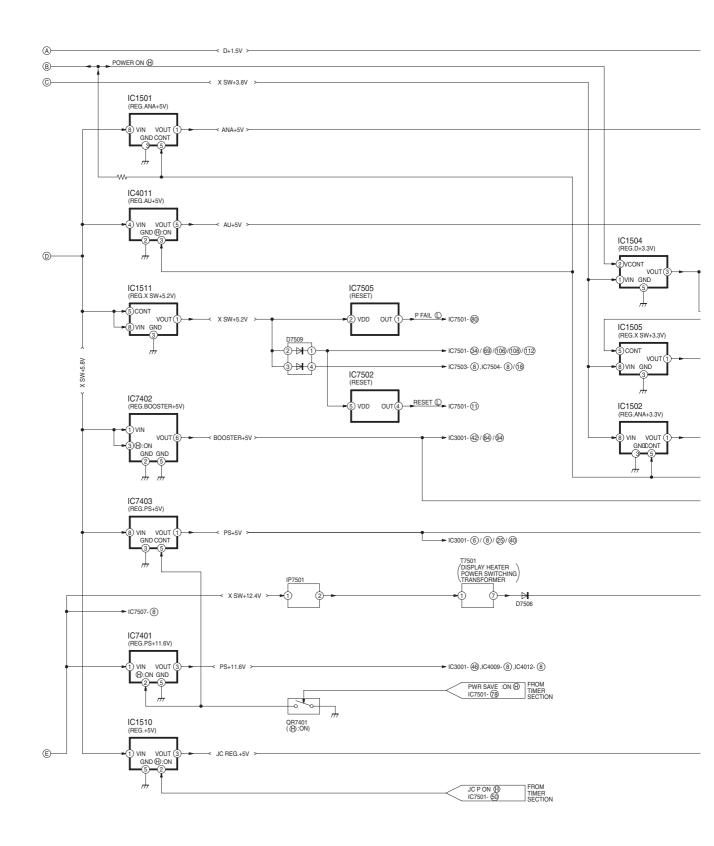
19.1. POWER BLOCK DIAGRAM



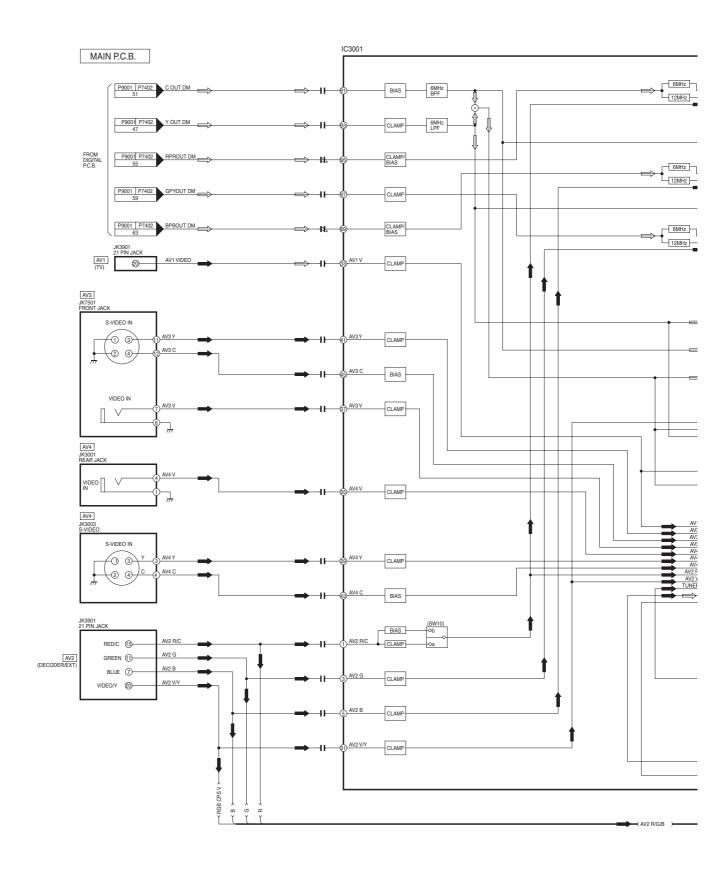


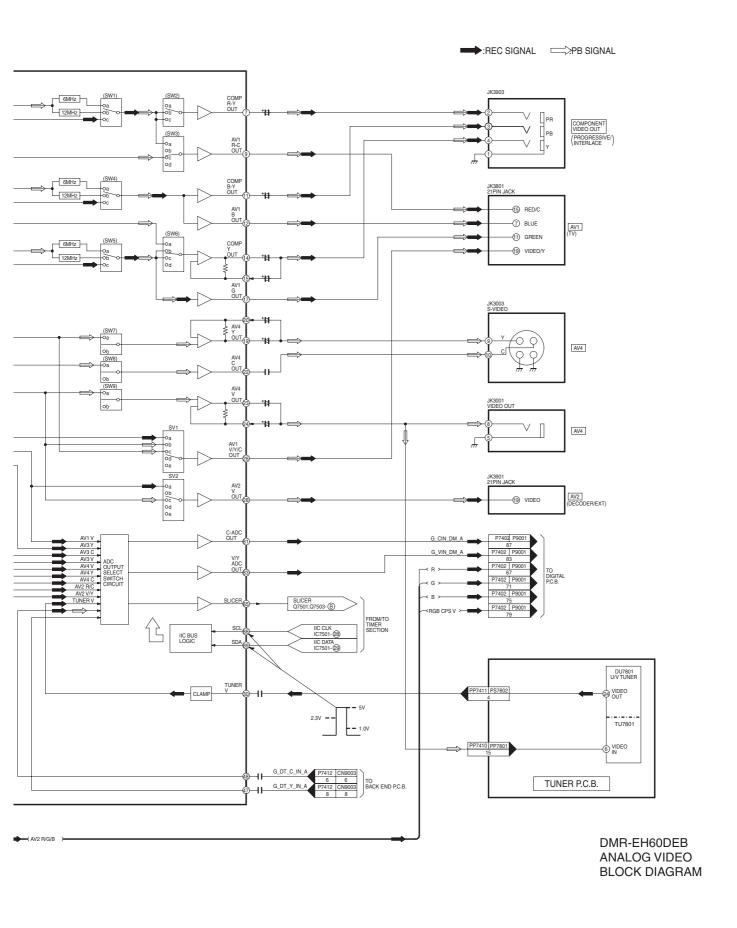




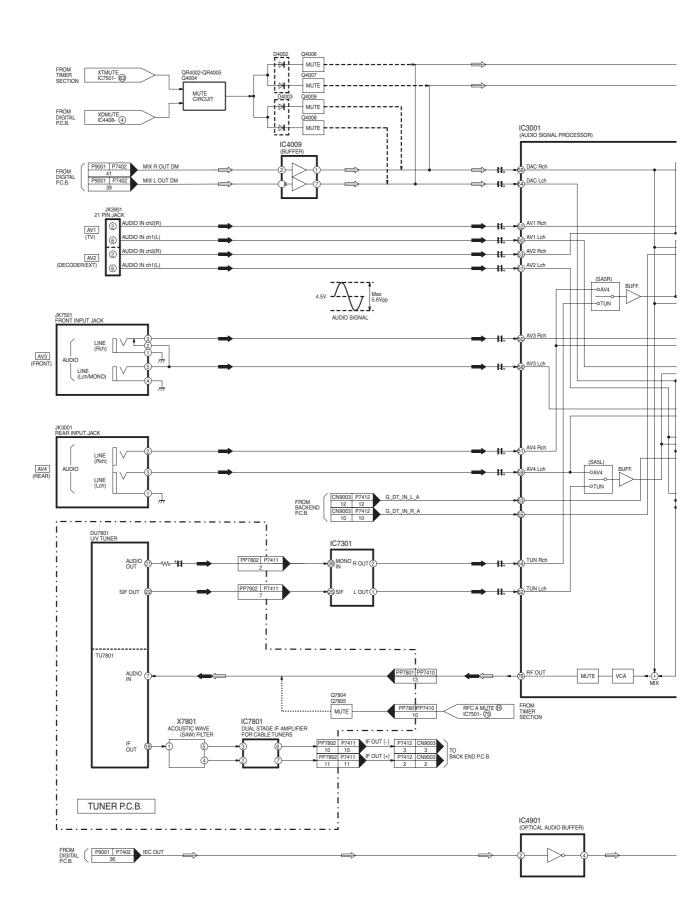


19.2. ANALOG VIDEO BLOCK DIAGRAM

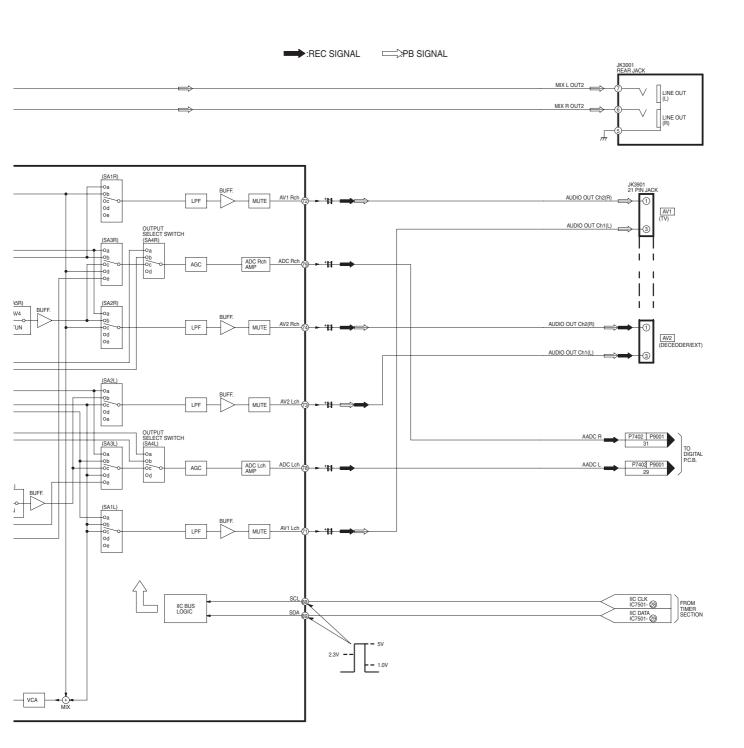




19.3. ANALOG AUDIO BLOCK DIAGRAM



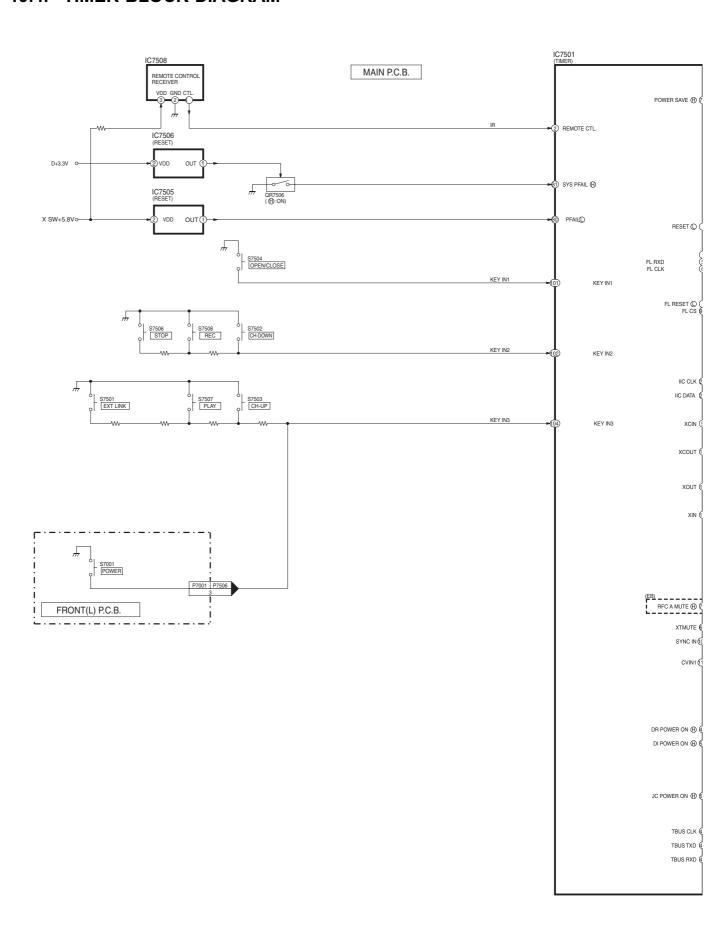




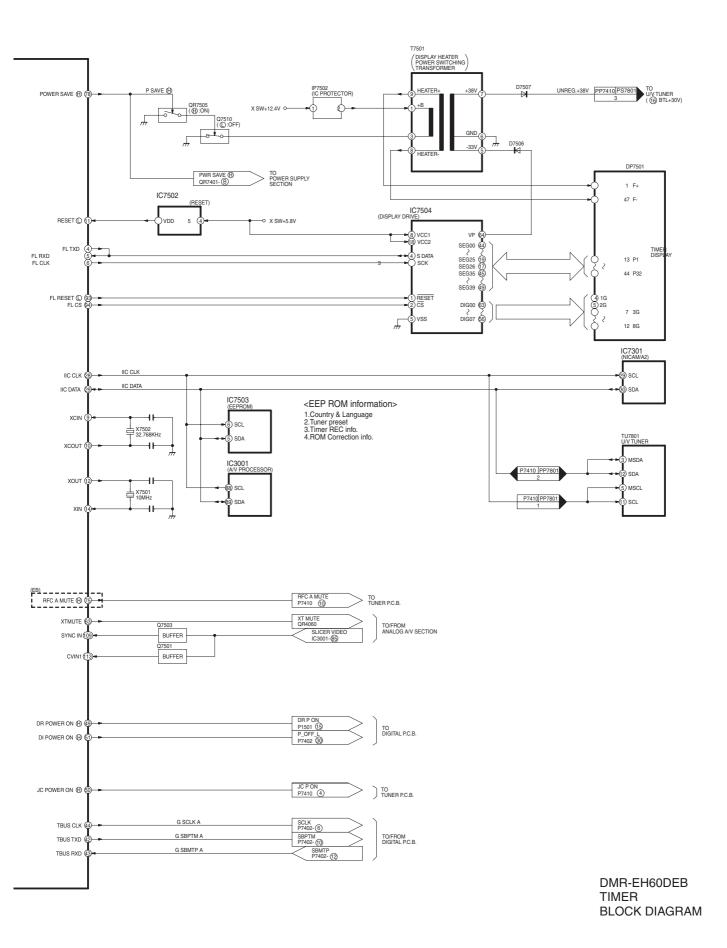


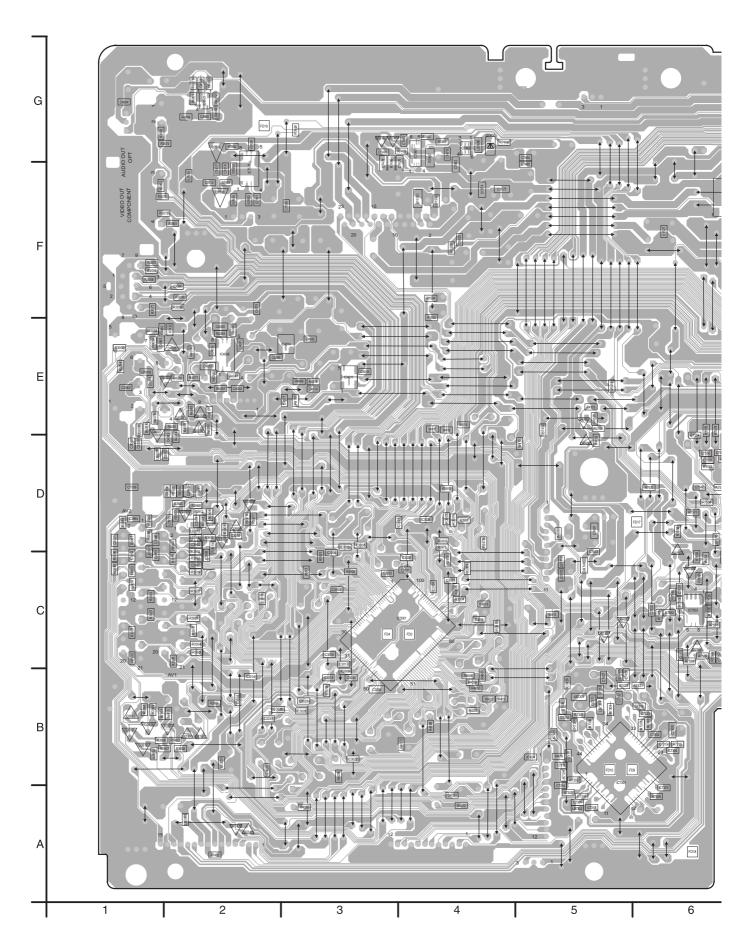
DMR-EH60DEB ANALOG AUDIO BLOCK DIAGRAM

19.4. TIMER BLOCK DIAGRAM

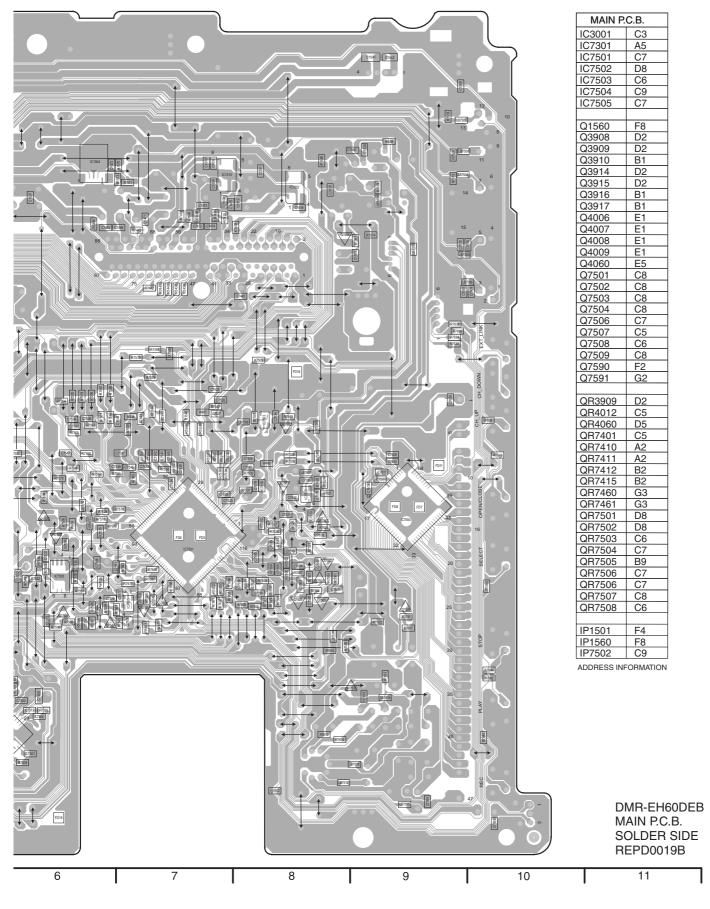




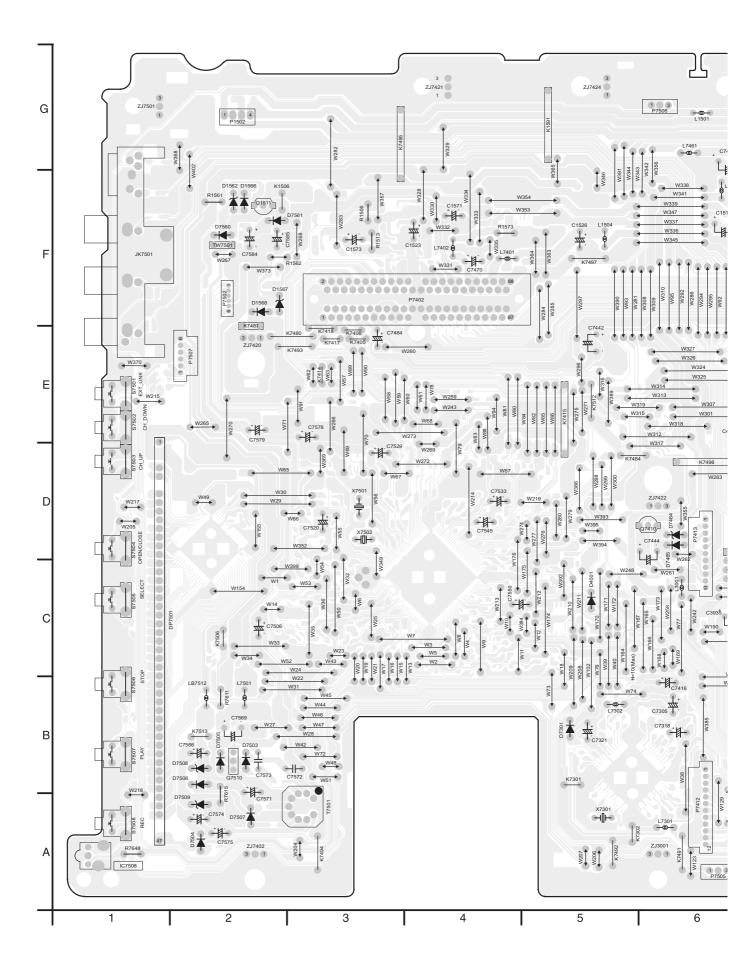




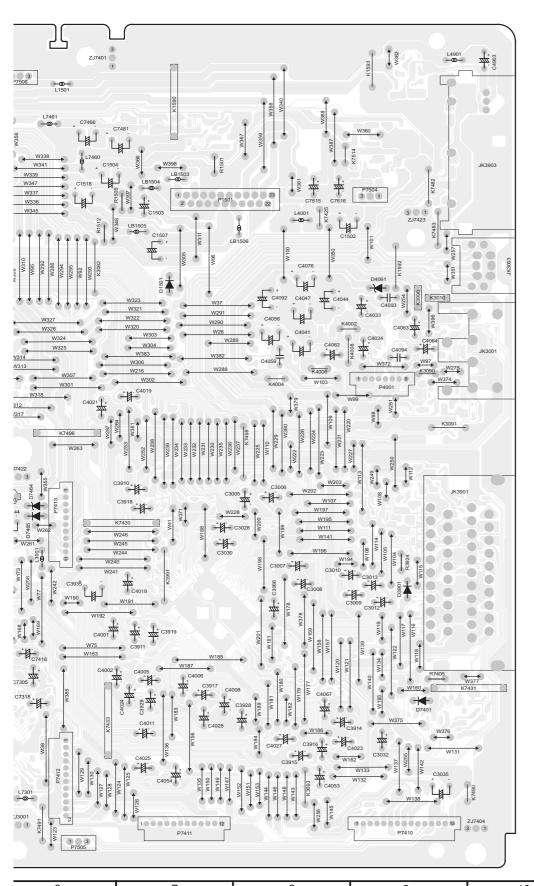




21.2. MAIN P.C.B.





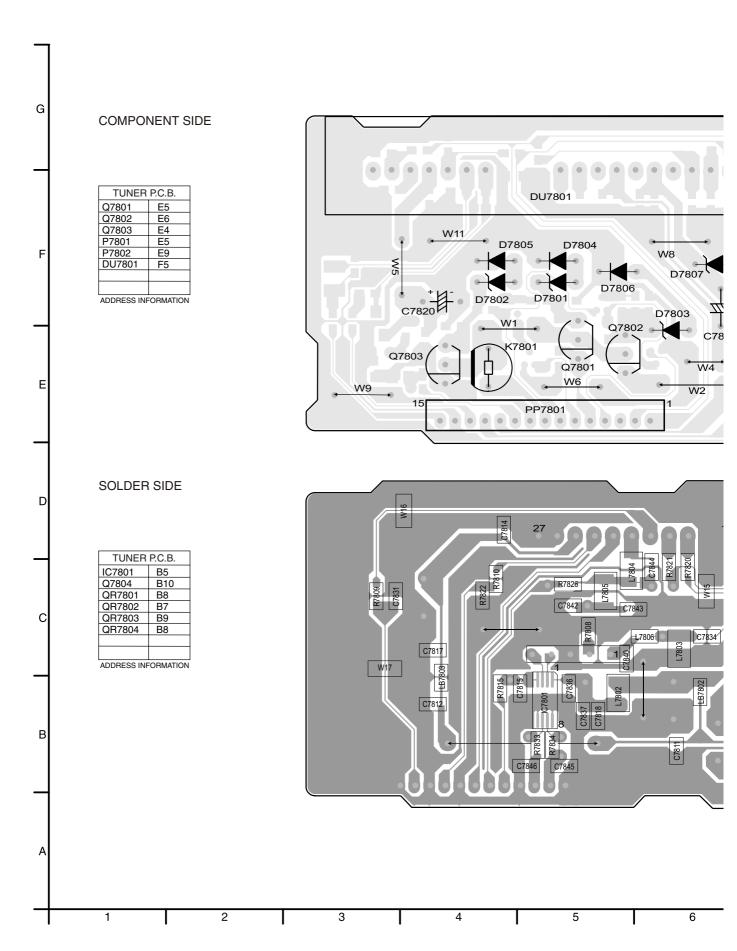


MAIN	P.C.B.		
IC7508	A1		
Q1511	F2		
Q7410	D6		
Q7510	B2		
JK3001	E10		
JK3003	F10		
JK3901	D9		
JK3903	F10		
JK7501	F1		
P1501	F7		
P1502	G2		
P4001	E9		
P7402	F3		
P7410	A9		
P7411	A7		
P7412	A6		
P7413	D6		
P7502	F2		
P7504	F9		
P7505	A6		
P7506	G6		
P7507	E2		
DP7501	A1		
TW7501	F2		
T7501	A3		

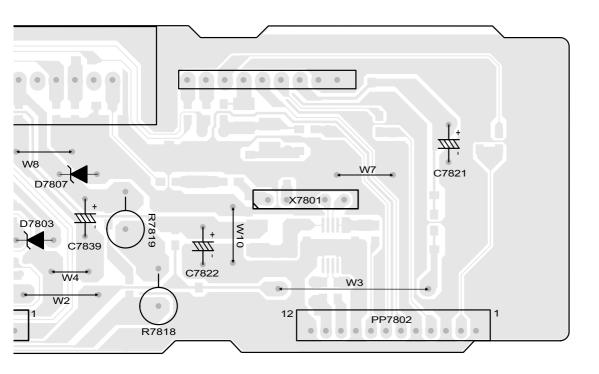
ADDRESS INFORMATION

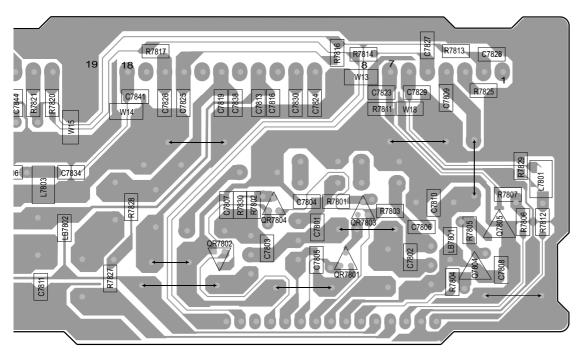
DMR-EH60DEB MAIN P.C.B. COMPONENT SIDE REPD0019B

21.3. TUNER P.C.B.









DMR-EH60DEB TUNER P.C.B. COMPONENT SIDE / SOLDER SIDE REPD0022A

21.4. VIF P.C.B.

G

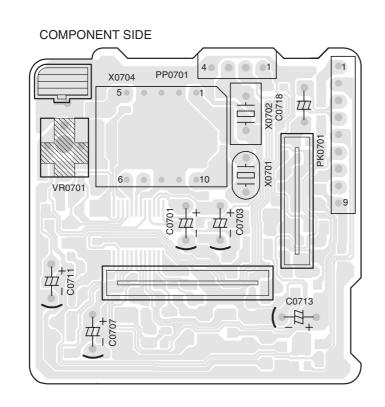
F

Ε

D

С

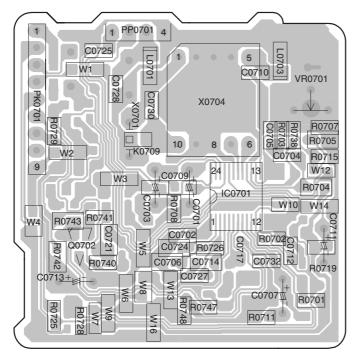
В



VIF P.C.B				
X0704	G2			
X0702	G3			
X0701	F3			
PP0701	G2			
PK0701	F3			

ADDRESS INFORMATION

SOLDER SIDE



2

3

VIF P.C.B				
X0704	C3			
X0702	C2			
X0701	C2			
Q0701	B1			
IC0701	B3			
PP0701	D2			
PK0701	C1			

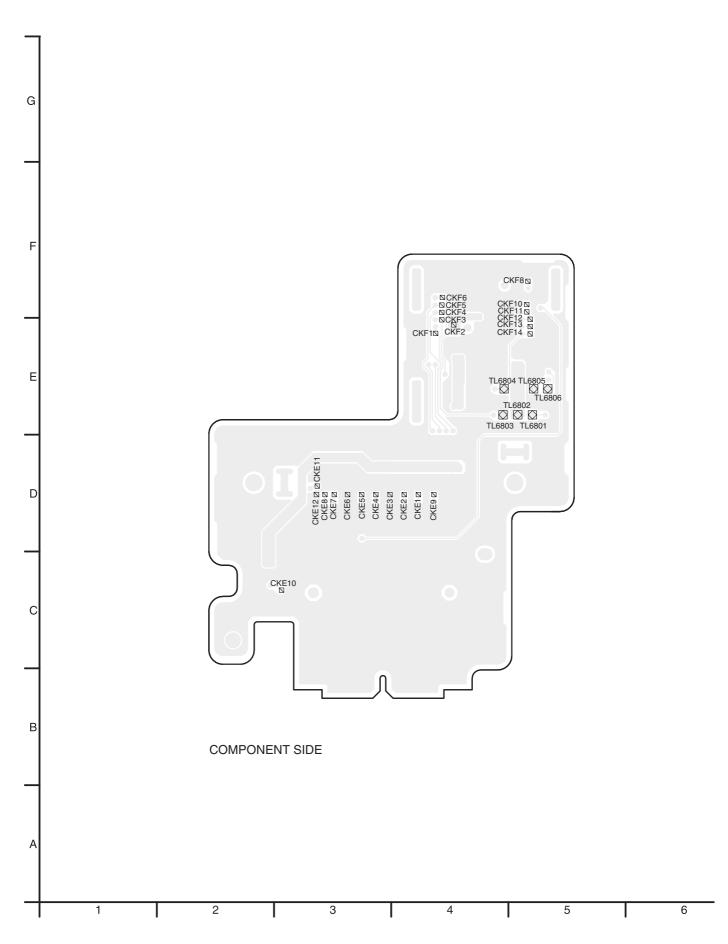
ADDRESS INFORMATION

5

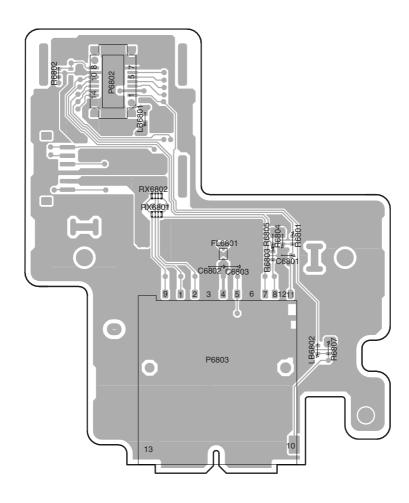
6

DMR-EH60DEB VIF P.C.B. COMPONENT SIDE / SOLDER SIDE VEP07A71M

21.5. SD CARD



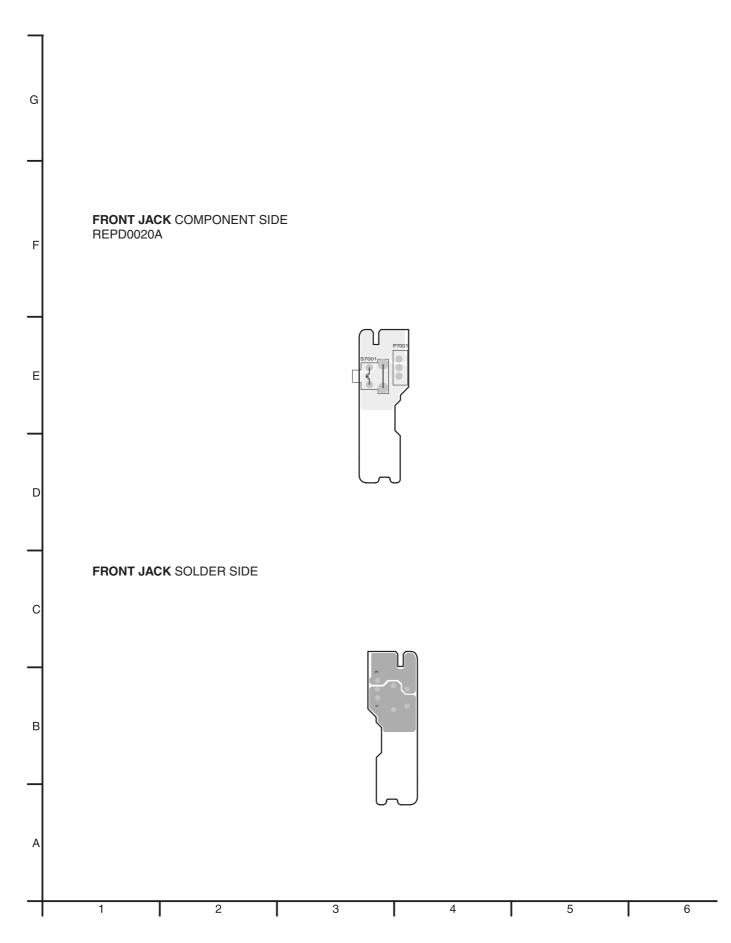




SOLDER SIDE

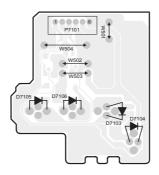
DMR-EH60DEB SD CARD P.C.B. COMPONENT SIDE/SOLDER SIDE VEP73121E

21.6. FRONT P.C.B. AND LED P.C.B.

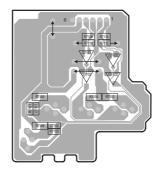




LED COMPONENT SIDE REPD0021A



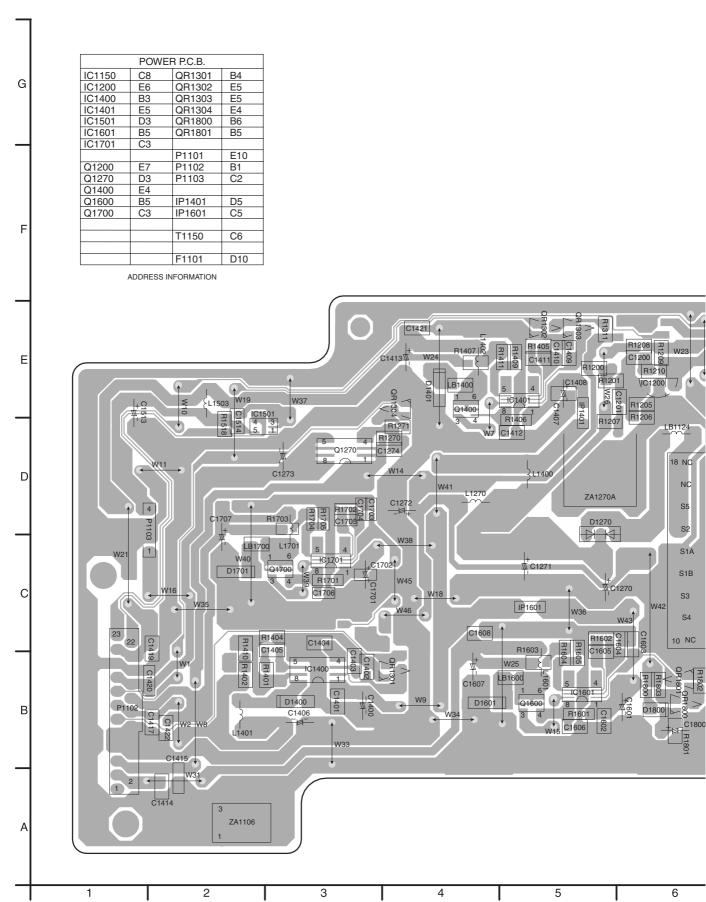
LED SOLDER SIDE



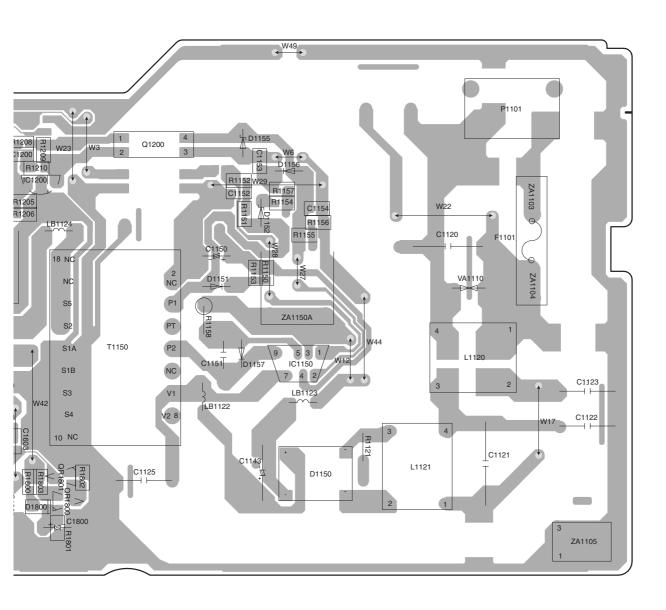
DMR-EH60DEB FRONT P.C.B./LED P.C.B. COMPONENT SIDE/SOLDER SIDE

21 PRINTED CIRCUIT BOARD

21.1. POWER P.C.B.





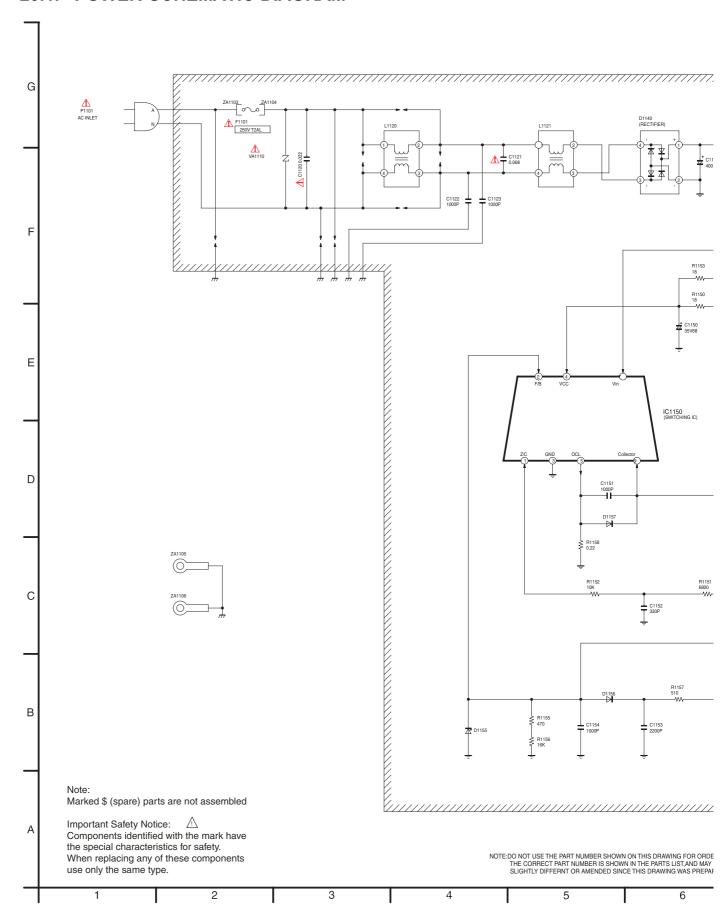


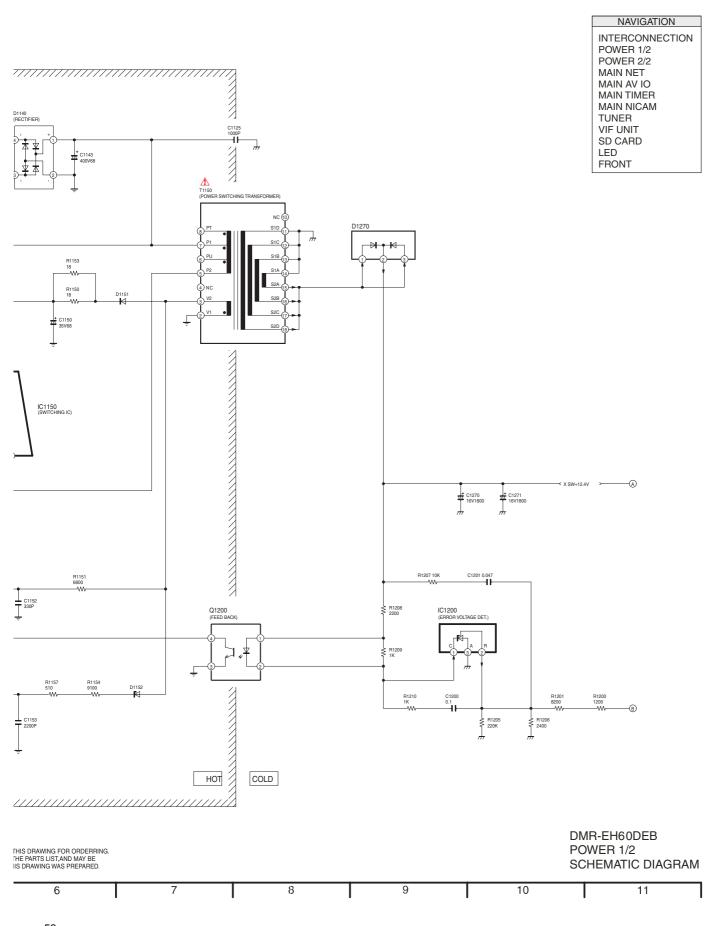
DMR-EH60DEB POWER P.C.B. SOLDER SIDE VEP01961B

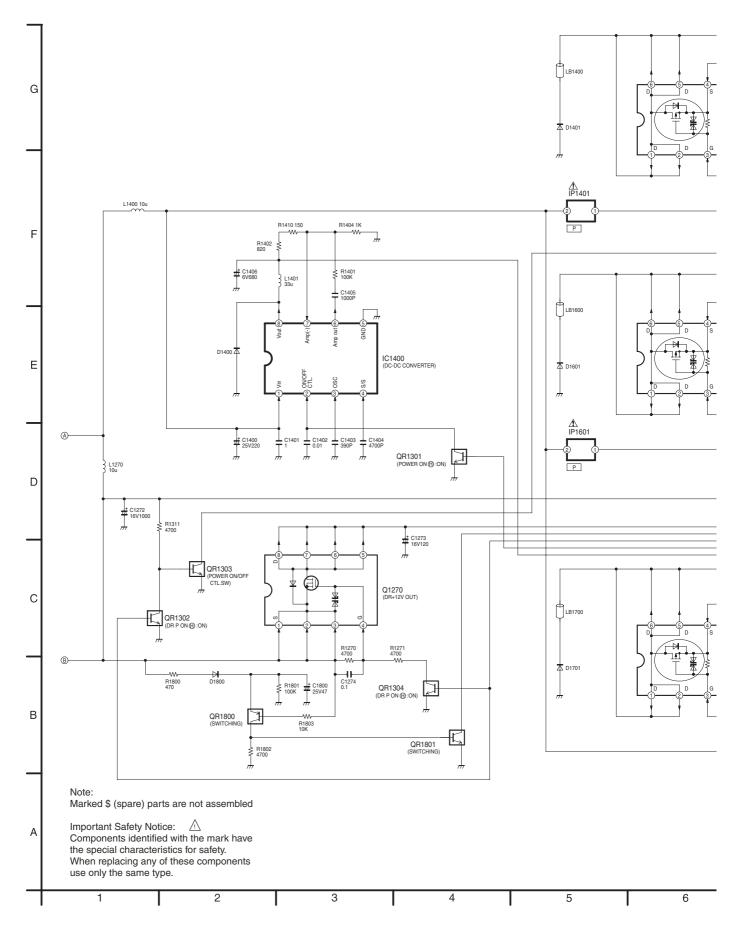
6	7	8	9	10	11

20 SCHEMATIC DIAGRAM

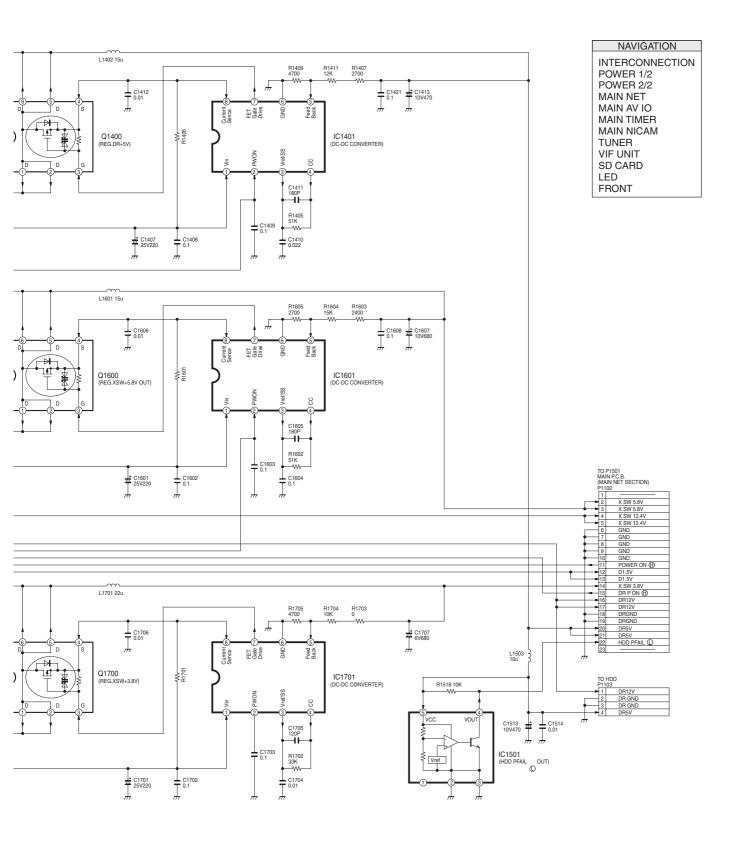
20.1. POWER SCHEMATIC DIAGRAM





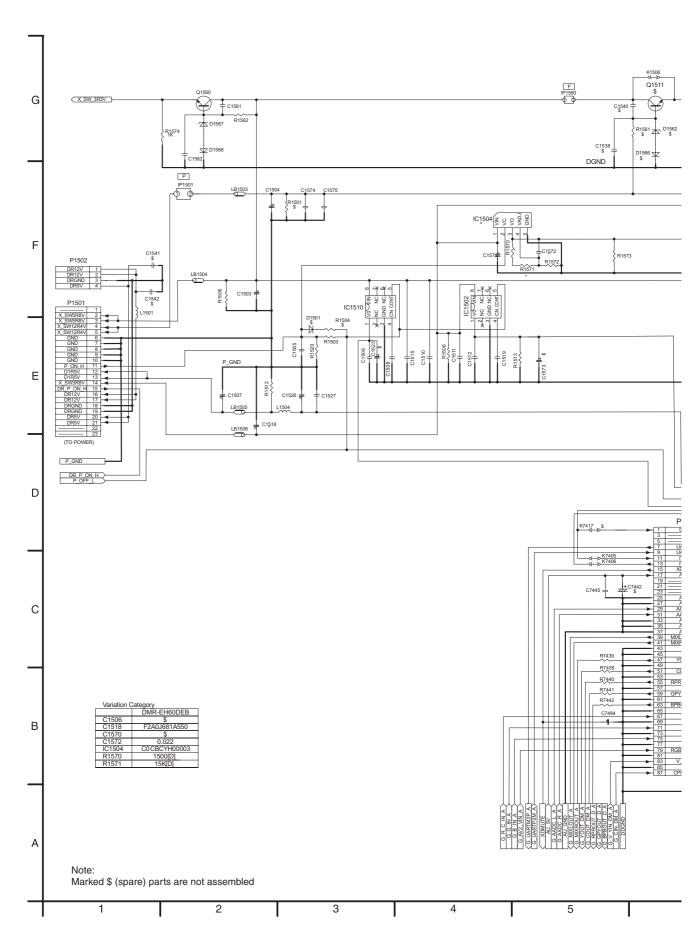


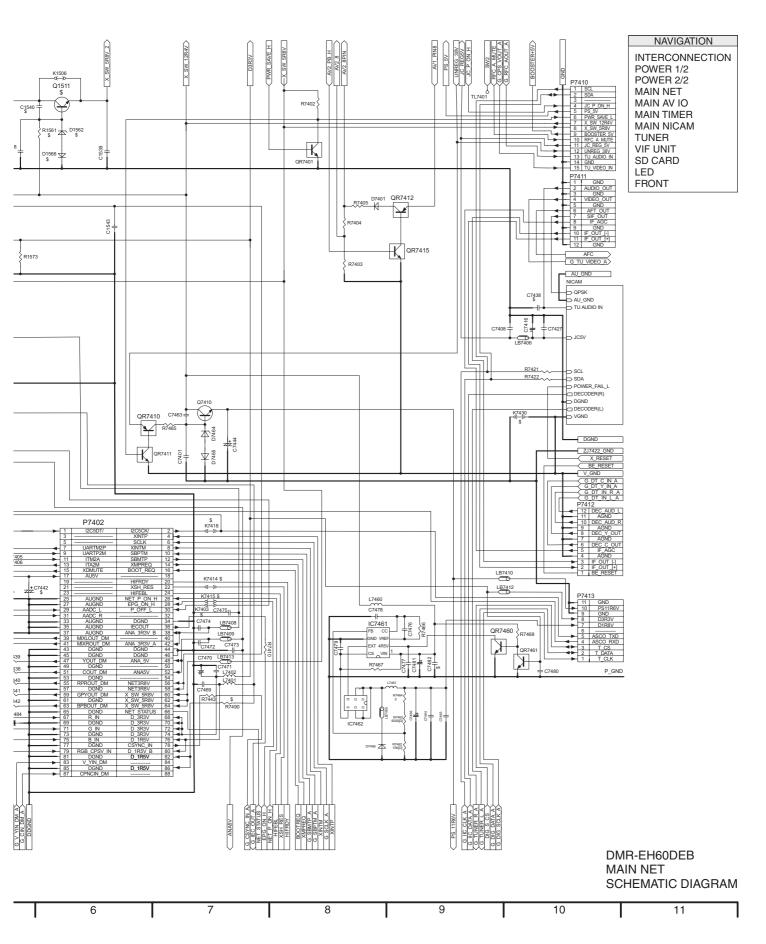




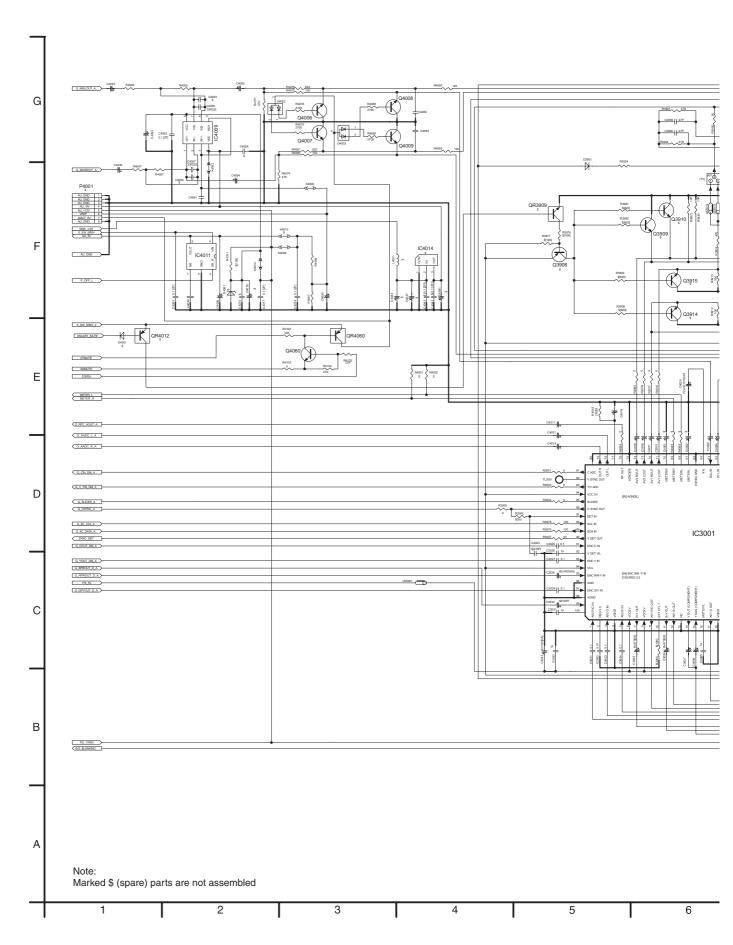
DMR-EH60DEB POWER 2/2 SCHEMATIC DIAGRAM

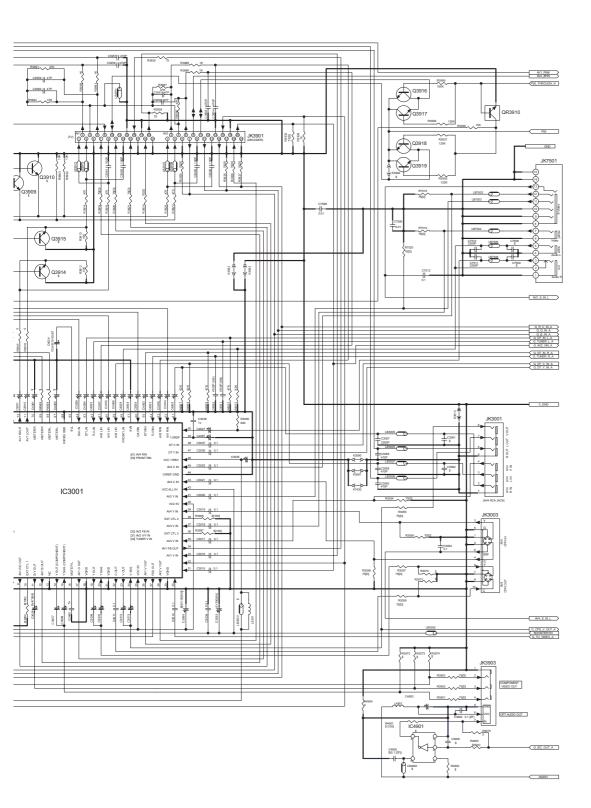
20.2. MAIN NET





20.3. MAIN AV IO



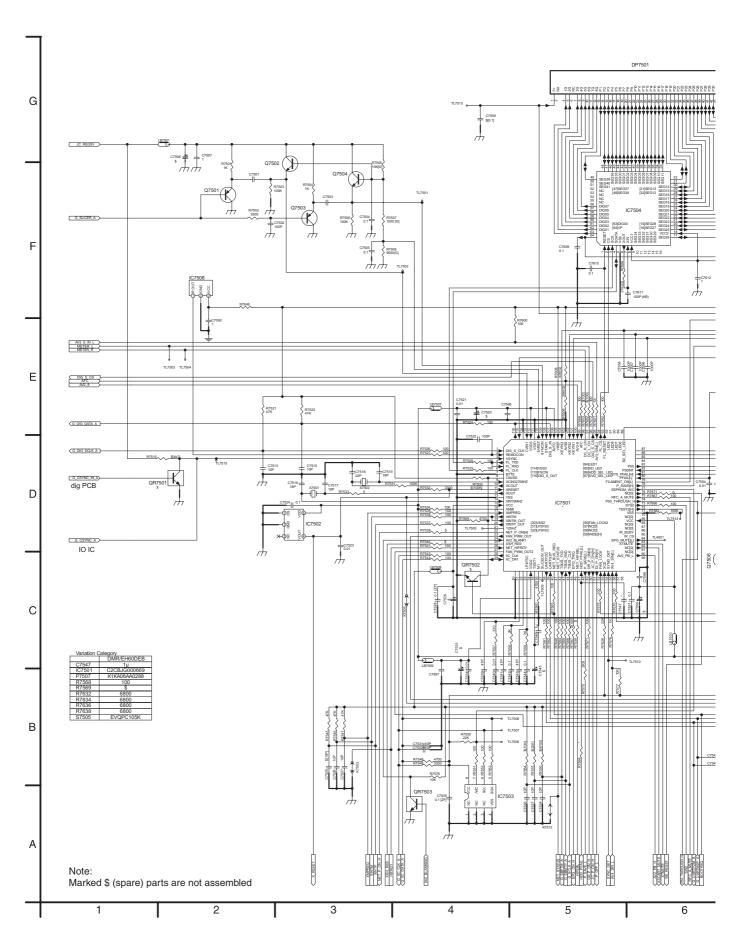


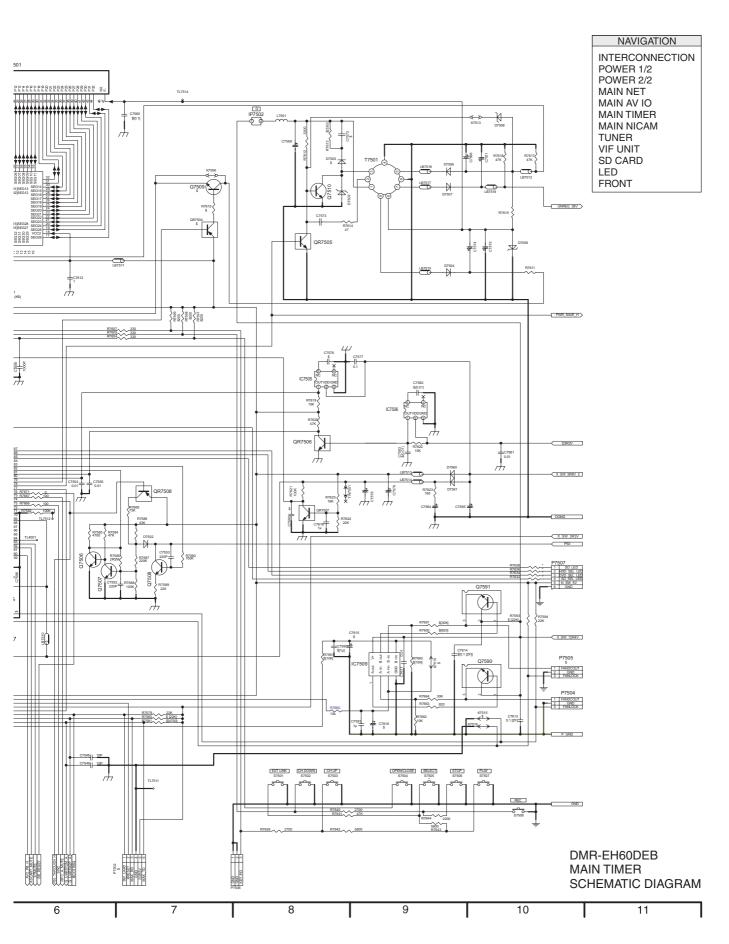
NAVIGATION

INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

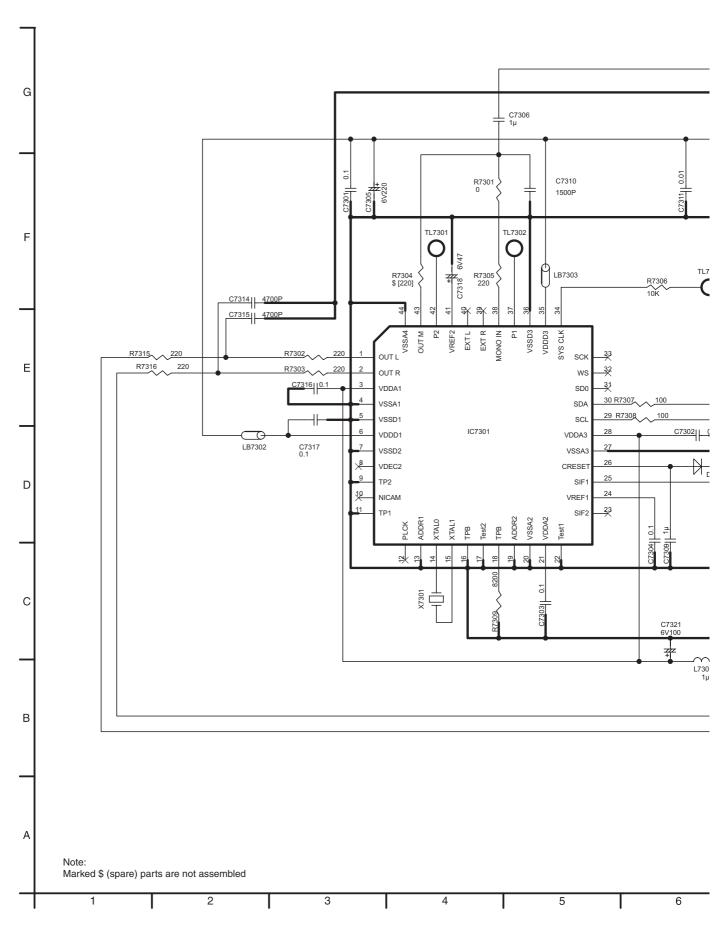
DMR-EH60DEB MAIN AV IO SCHEMATIC DIAGRAM

20.4. MAIN TIMER

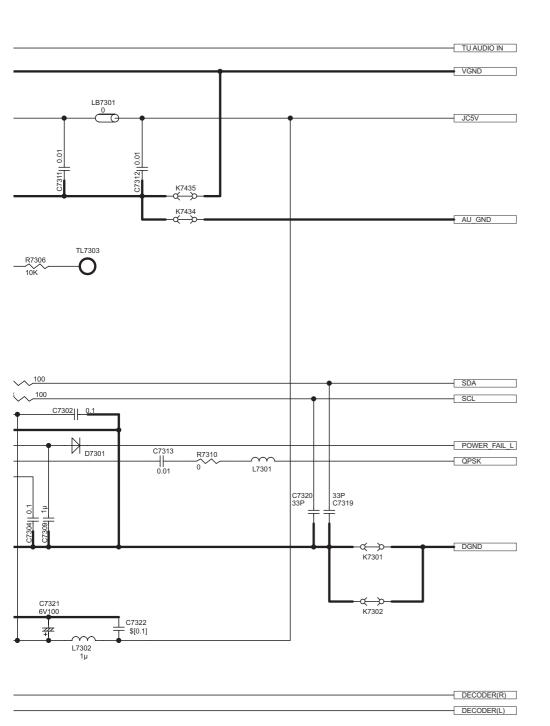




20.5. MAIN NICAM





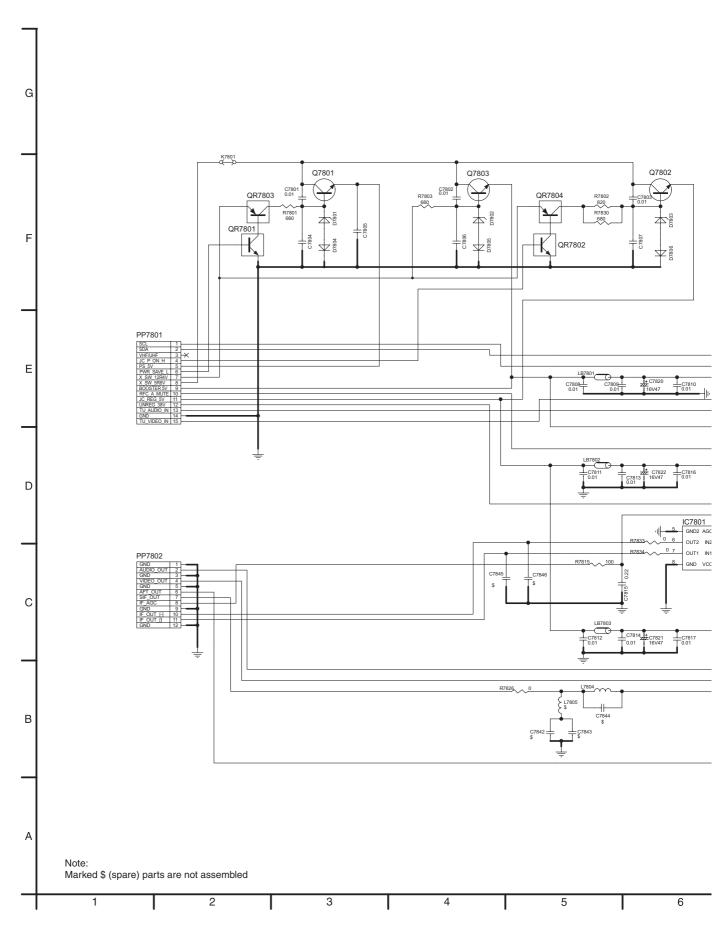


NAVIGATION

INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

DMR-EH60DEB MAIN NICAM SCHEMATIC DIAGRAM

20.6. TUNER



NAVIGATION

INTERCONNECTION

POWER 1/2

POWER 2/2

MAIN NET

MAIN AV IO

MAIN TIMER

MAIN NICAM

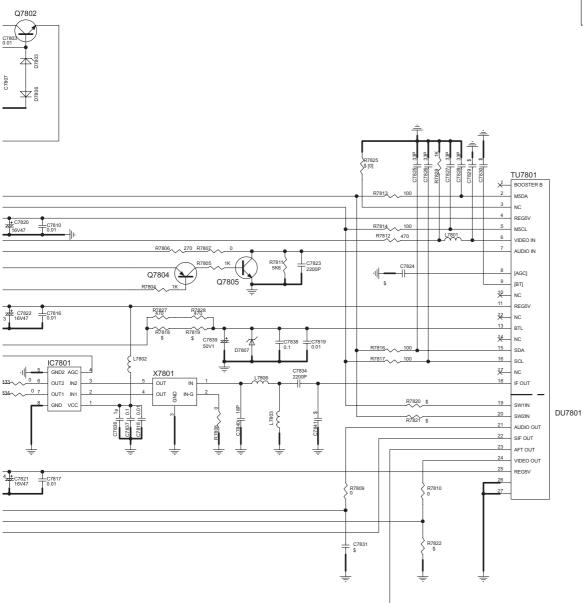
TUNER

VIF UNIT

SD CARD

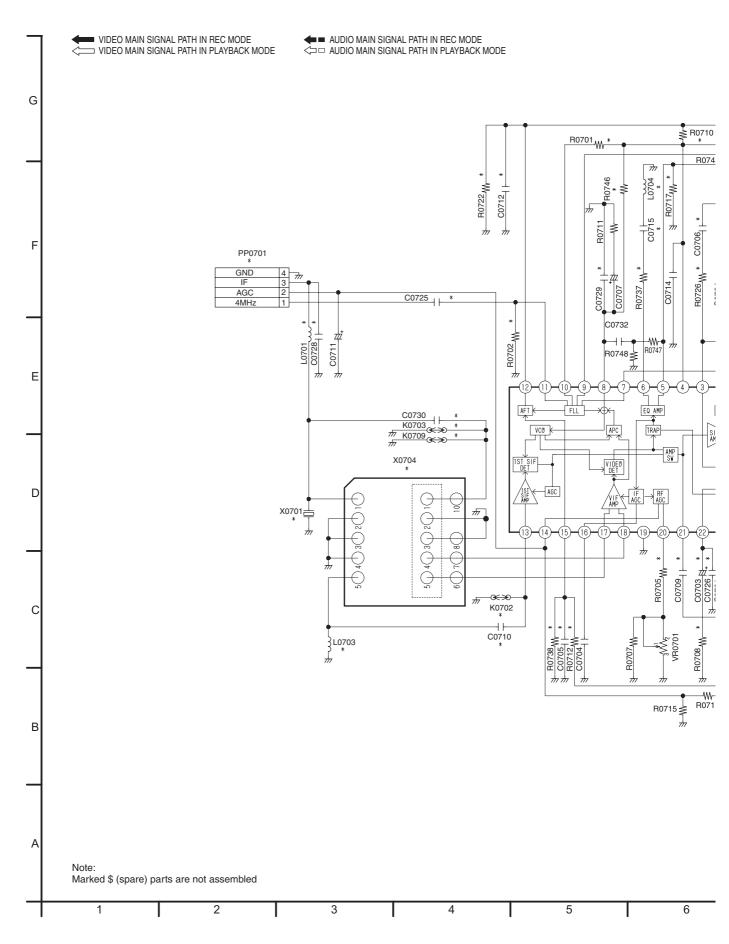
LED

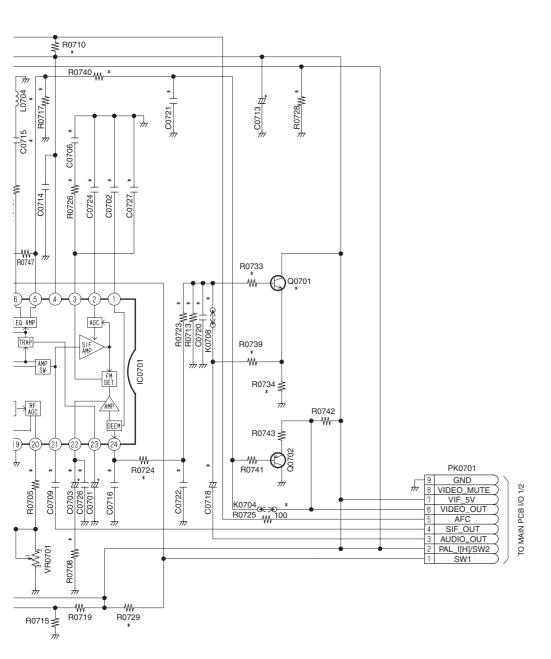
FRONT



DMR-EH60DEB TUNER SCHEMATIC DIAGRAM

20.7. VIF UNIT



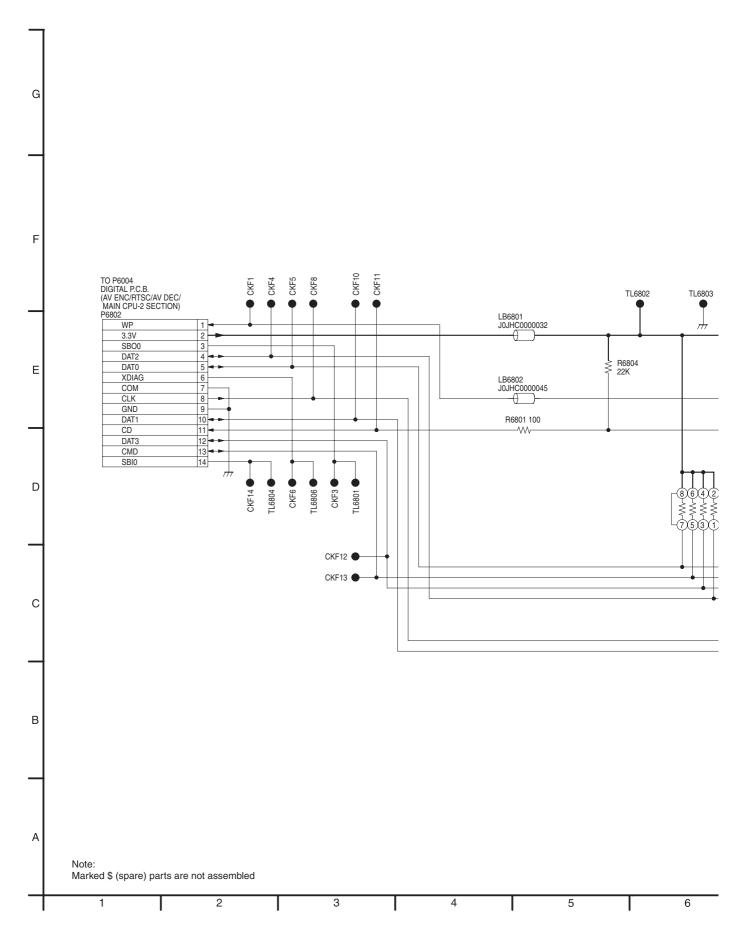


NAVIGATION

INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

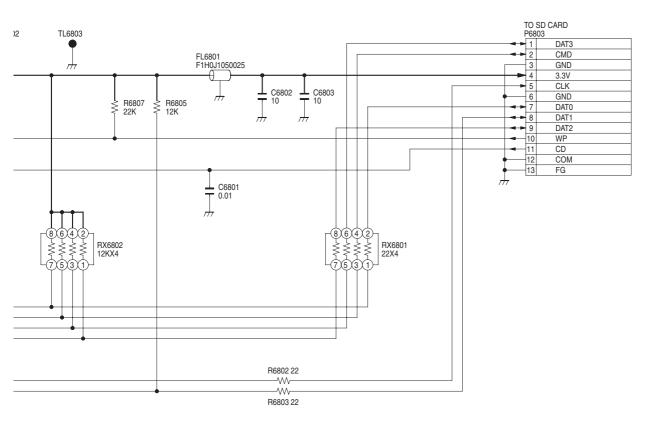
DMR-EH60DEB VIF-UNIT SCHEMATIC DIAGRAM

20.8. SD CARD



NAVIGATION

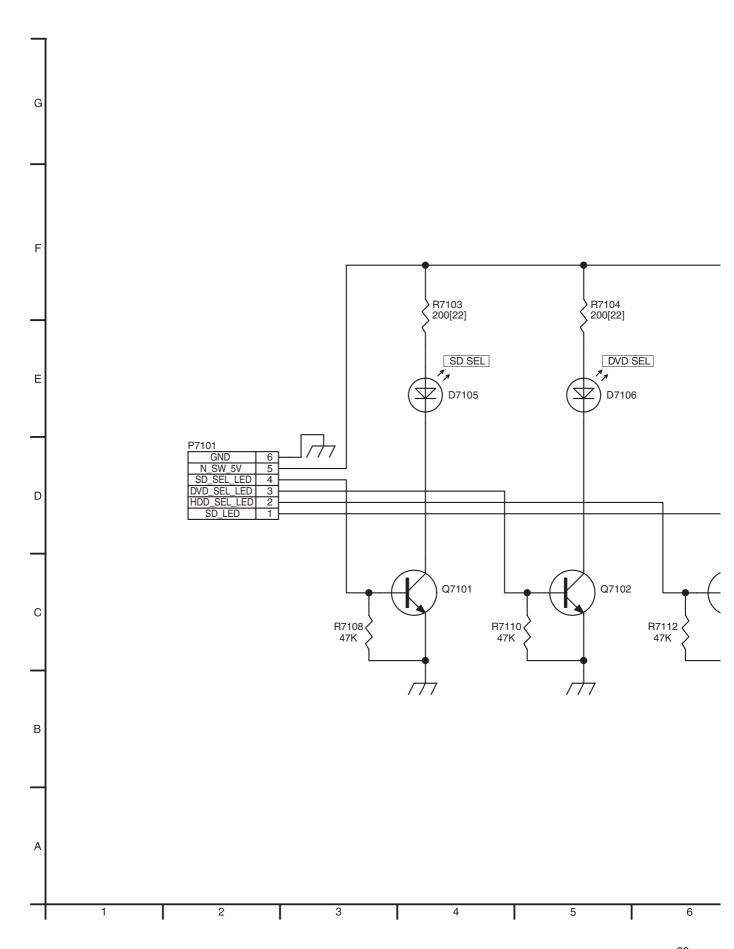
INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT



DMR-EH60DEB SD CARD SCHEMATIC DIAGRAM

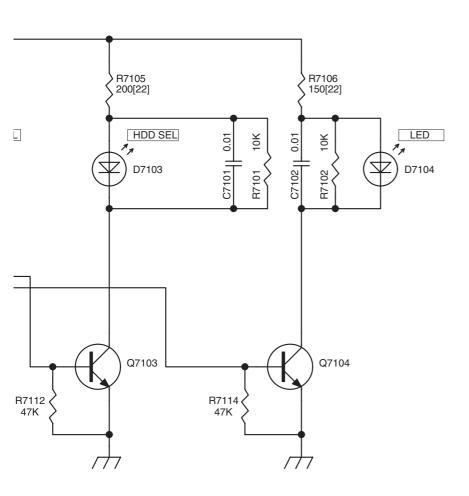
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

20.9. LED



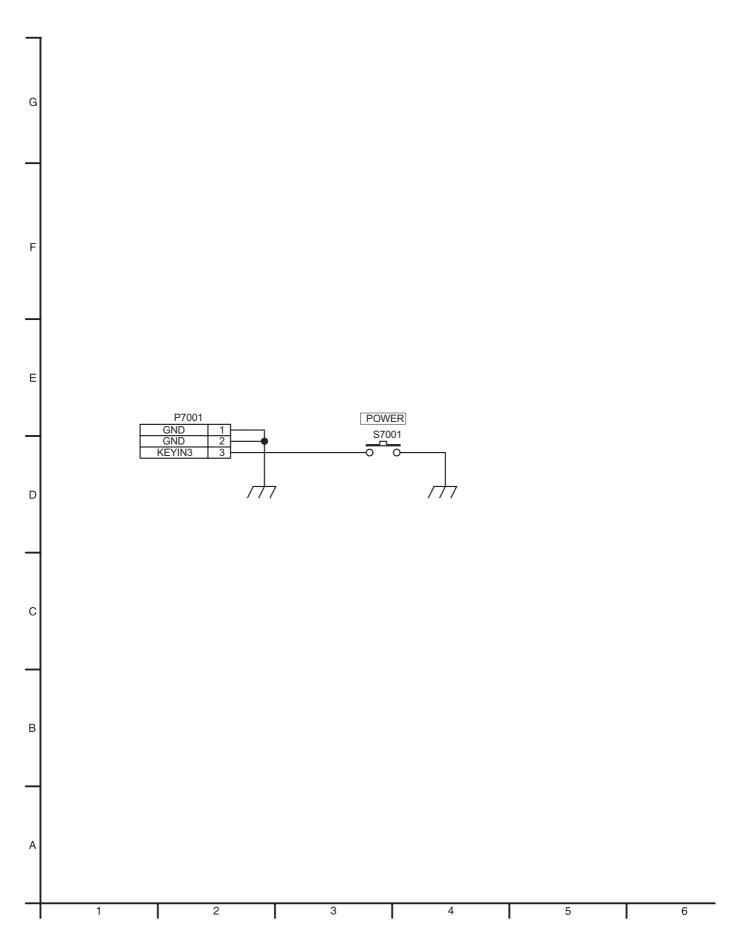
NAVIGATION

INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT



DMR-EH60DEB LED SCHEMATIC DIAGRAM

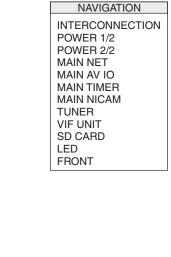
20.10. FRONT

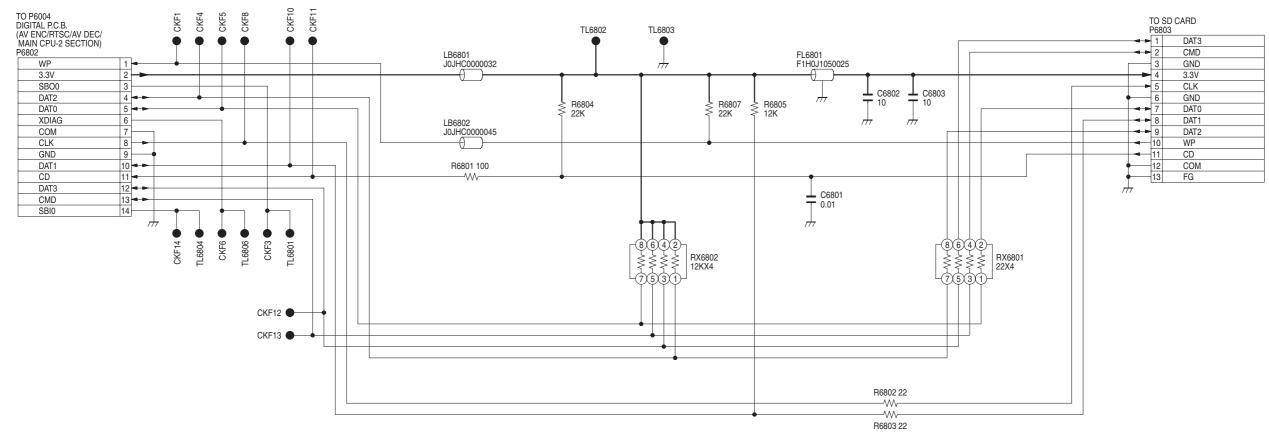


NAVIGATION

INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

DMR-EH60DEB FRONT SCHEMATIC DIAGRAM





Note: Marked \$ (spare) parts are not assembled

G

Εl

D

C

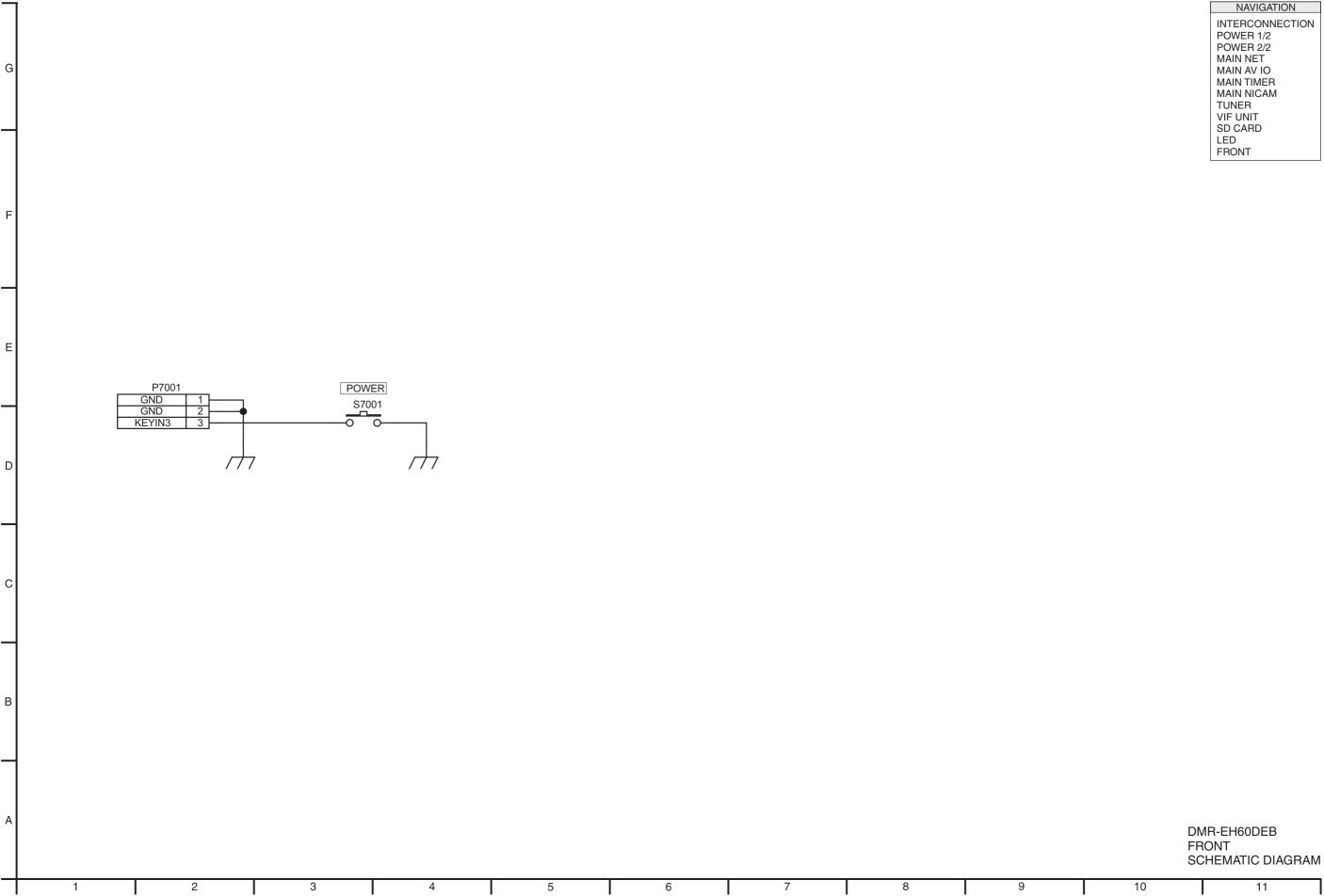
В

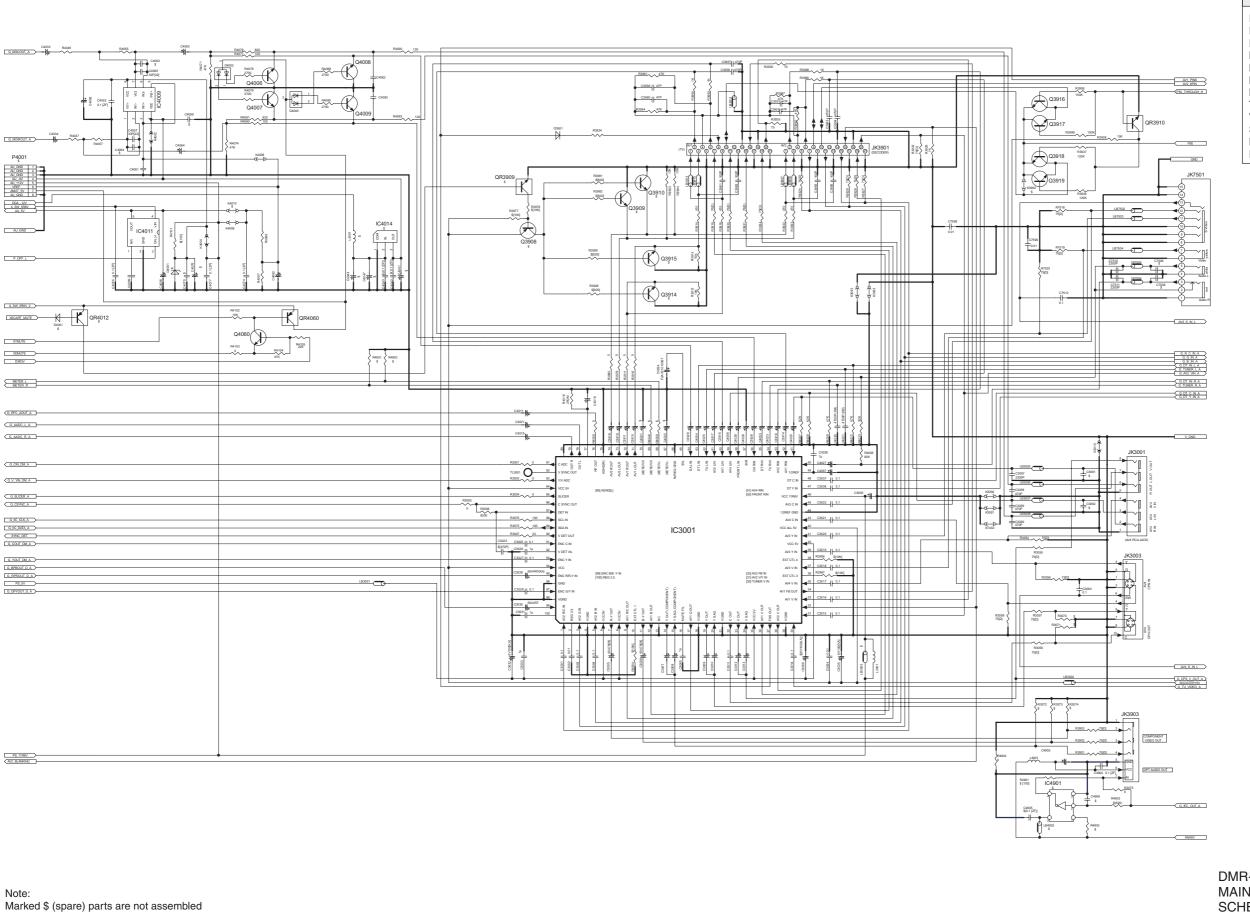
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-EH60DEB SD CARD SCHEMATIC DIAGRAM

11

1 2 3 4 5 6 7 8 9 10





G

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В

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4

5

6

7

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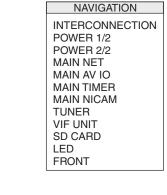
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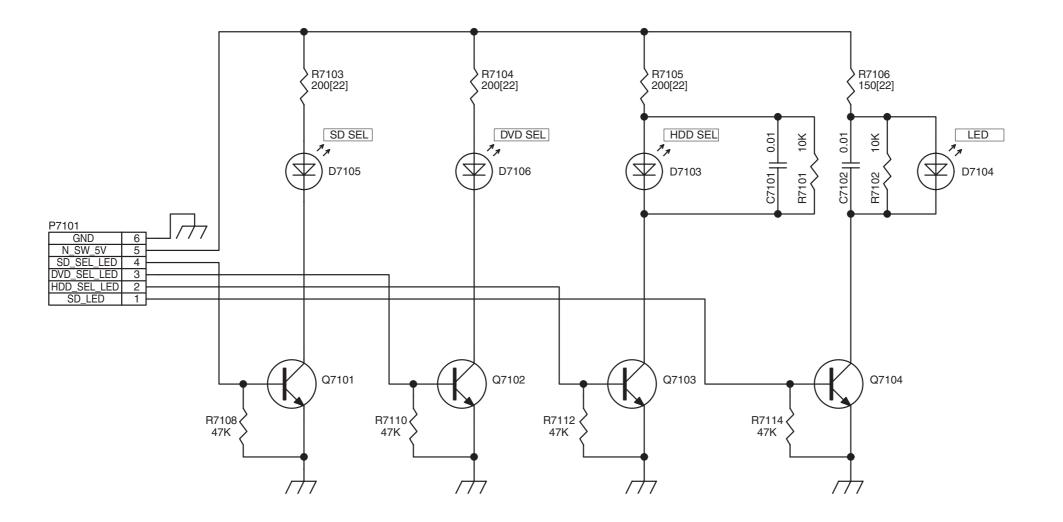
NAVIGATION
INTERCONNECTION
POWER 1/2
POWER 2/2
MAIN NET
MAIN AV IO
MAIN TIMER
MAIN NICAM
TUNER
VIF UNIT
SD CARD
LED
FRONT

DMR-EH60DEB MAIN AV IO SCHEMATIC DIAGRAM

11

10





DMR-EH60DEB LED SCHEMATIC DIAGRAM

1

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в

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6

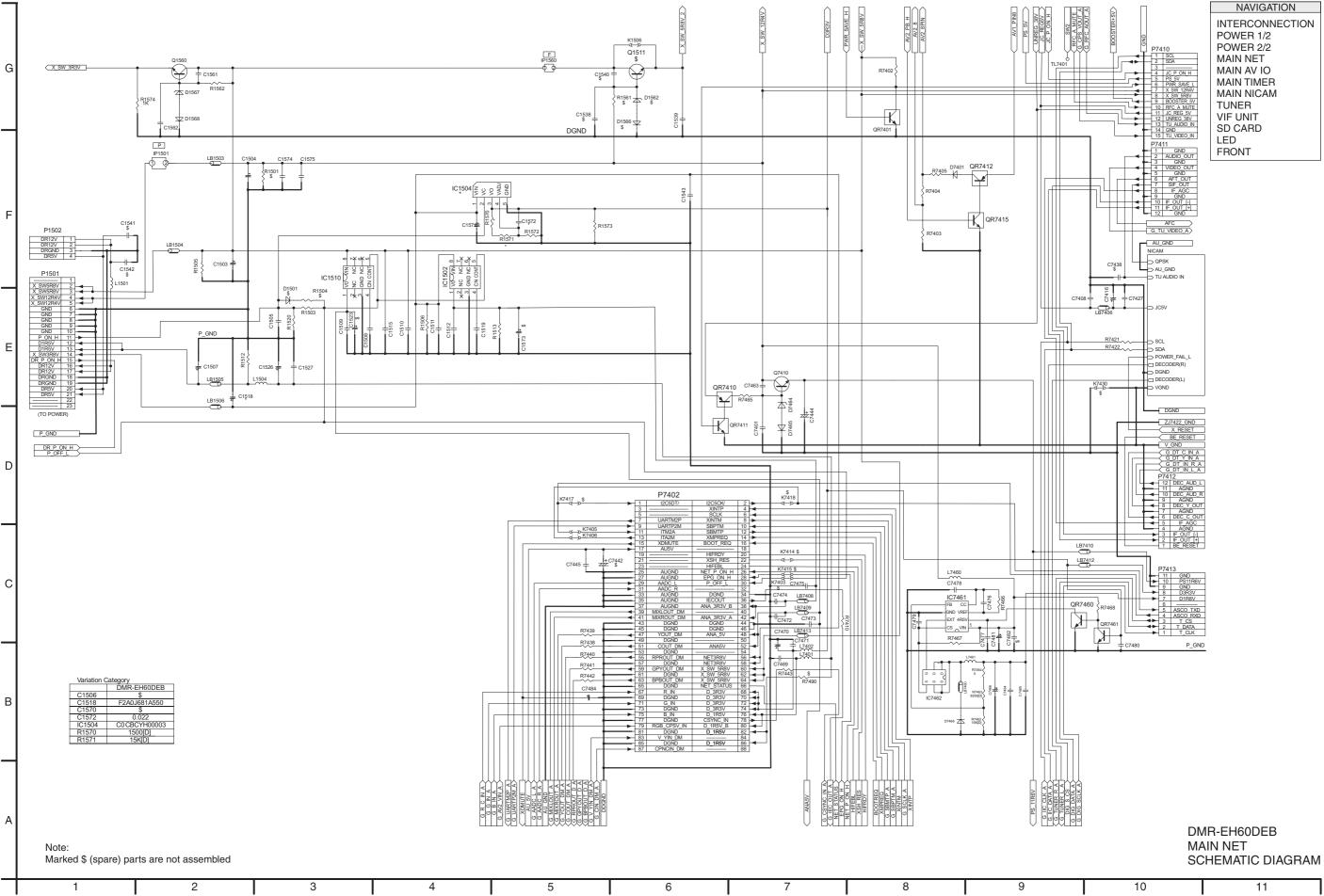
 \Box

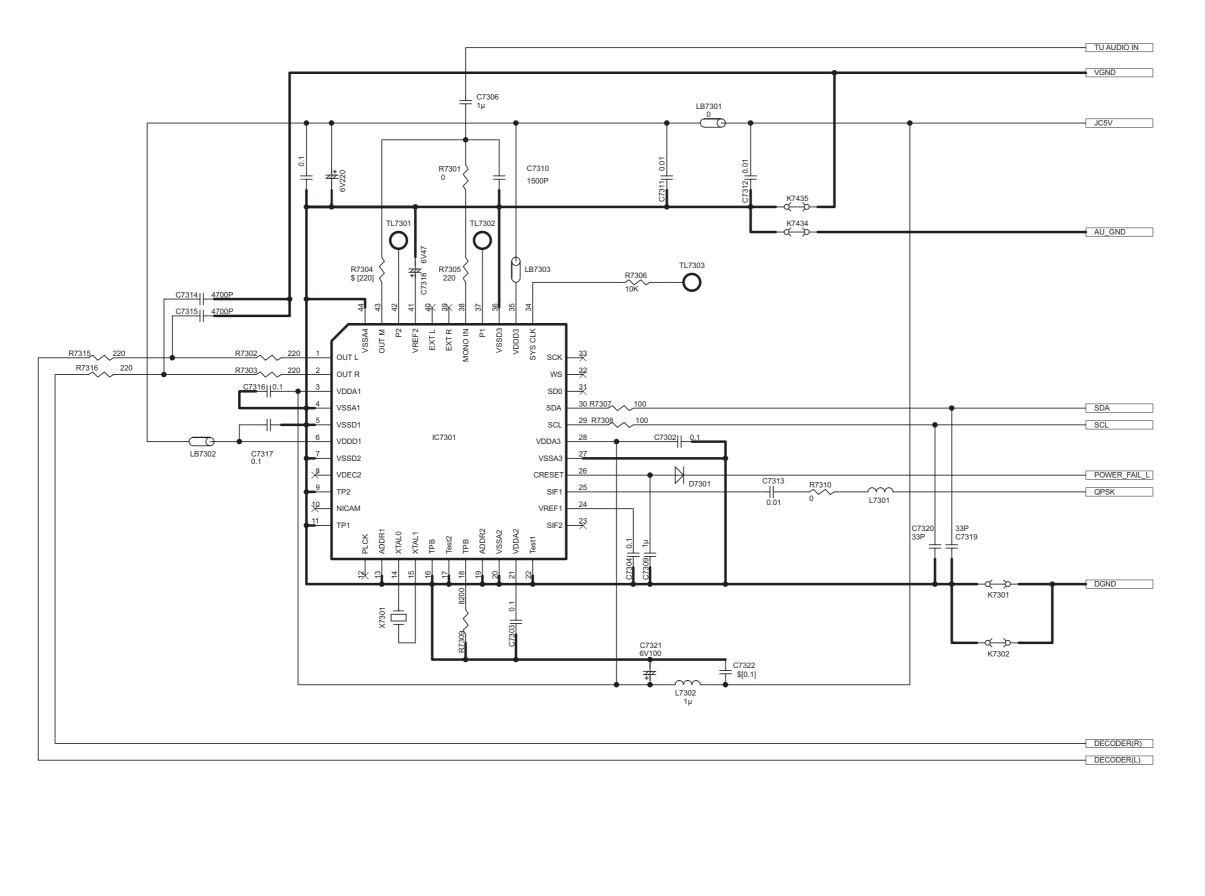
7

8

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10 11





DMR-EH60DEB MAIN NICAM SCHEMATIC DIAGRAM

NAVIGATION

POWER 1/2

POWER 2/2 MAIN NET

MAIN AV IO MAIN TIMER

MAIN NICAM

TUNER VIF UNIT SD CARD

LED FRONT

Marked \$ (spare) parts are not assembled

G

Εl

D

C

В

2 3 4 5 6 7 8 9 10 11

